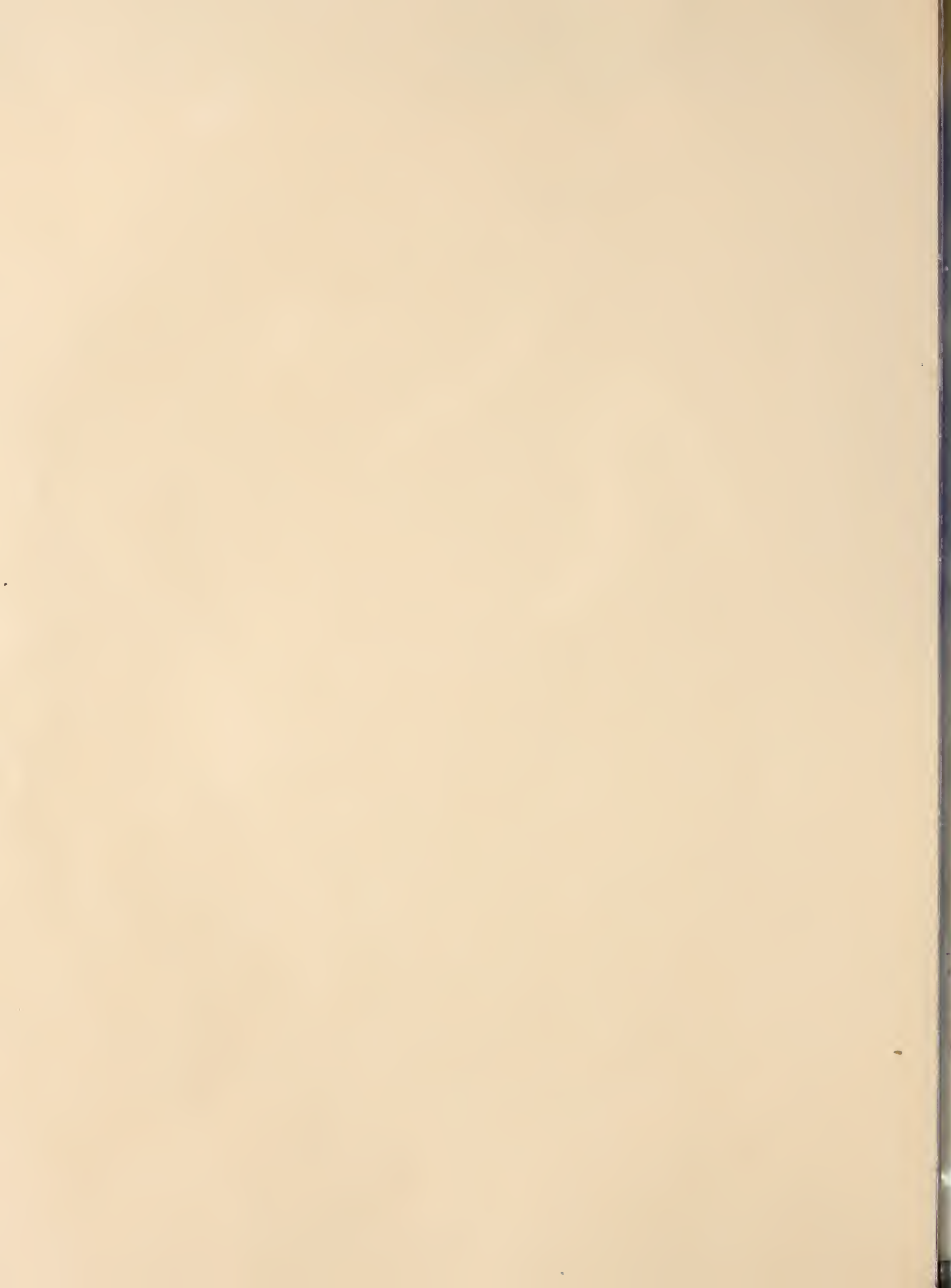
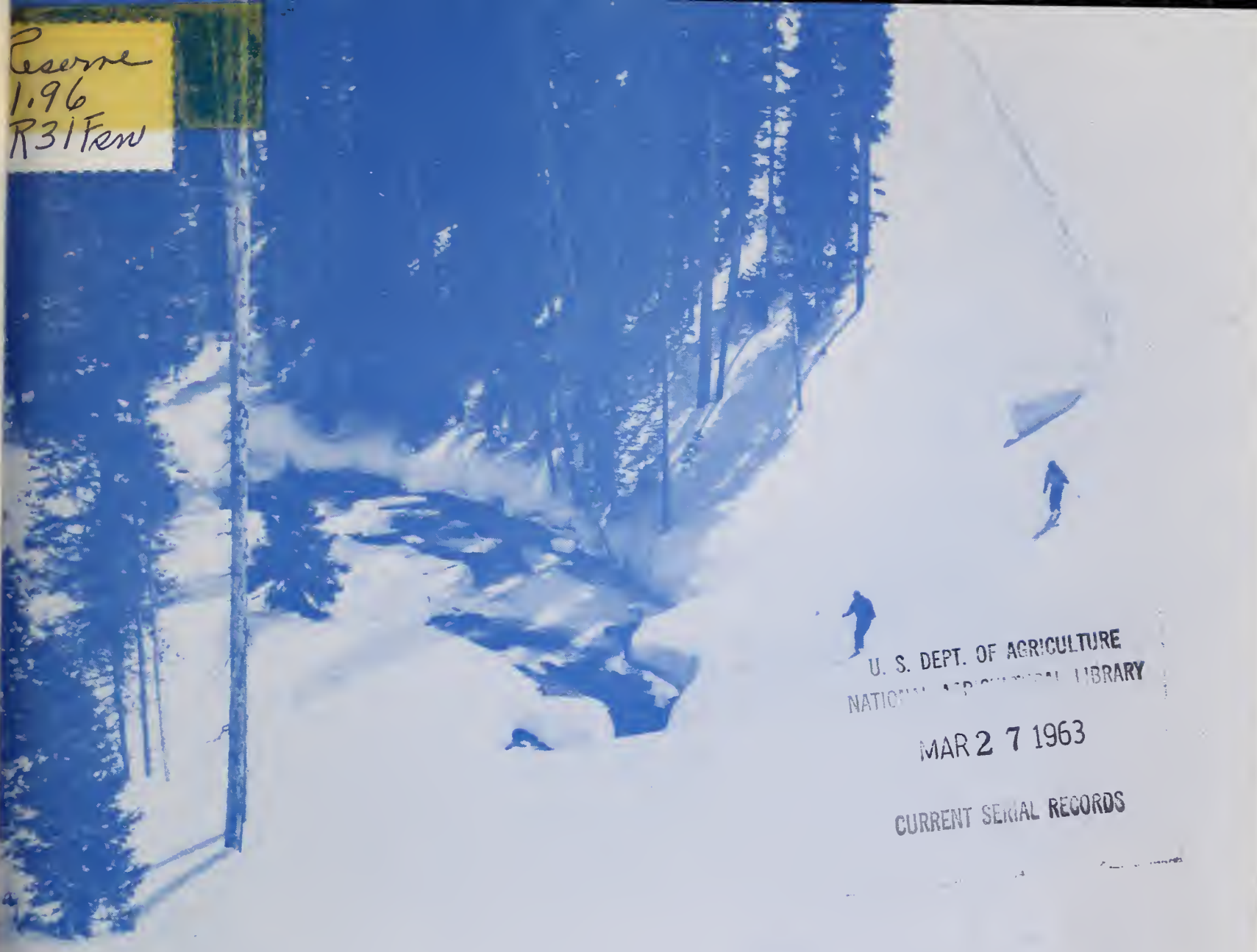


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CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK and **FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS** for **NEVADA**

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,
and
NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
MAR. 1, 1963

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 4170, Portland 8, Oregon.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RIGHTS BR., DEPT. OF LANDS, FORESTS AND NATURAL RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
NEVADA

Report prepared by

MANES BARTON

and

ROY E. MALSOR, JR.

SOIL CONSERVATION SERVICE
1479 SOUTH WELLS AVENUE
RENO, NEVADA

MARCH 8, 1963

Issued by

CHARLES W. CLEARY, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
RENO, NEVADA

HUGH A. SHAMBERGER

DIRECTOR
DEPARTMENT OF CONSERVATION AND
NATURAL RESOURCES
CARSON CITY, NEVADA

TABLE OF CONTENTS

	PAGE
ALPHABETICAL INDEX OF NEVADA SNOW COURSES	REVERSE SIDE
	TABLE CONTENTS PAGE
MAP AND INDEX OF NEVADA SNOW COURSES (BY BASINS)	FACING PAGE 1
WATER SUPPLY OUTLOOK FOR NEVADA	1
SUMMARY OF FORECASTS	2
SUMMARY OF RESERVOIR STATUS	3
GRAPHICAL SNOW COVER COMPARISON	PLATE 1
WATER SUPPLY CONDITIONS IN:	
NORTH TRUCKEE, FERNLEY & WASHOE VALLEY SCD'S, WASHOE, STOREY, & LYON COUNTIES	PLATE 2
CARSON VALLEY SCD, NEVADA & ALPINE SCD, CALIFORNIA	PLATE 3
STILLWATER, SHECKLER, LAHONTAN SCD'S & VICINITY, CHURCHILL COUNTY	PLATE 4
SMITH & MASON VALLEY SCD'S, NEVADA & EAST WALKER & MONO COUNTY SCD'S, CALIFORNIA	PLATE 5
ESMERALDA SCD, ESMERALDA COUNTY	PLATE 6
CENTRAL & SOUTHERN NEVADA, CLARK, LINCOLN, & NYE COUNTIES	PLATE 7
WHITE PINE SCD, WHITE PINE, LINCOLN & NYE COUNTIES	PLATE 8
CLOVER & RUBY SCD'S ELKO COUNTY	PLATE 9
NORTHEAST ELKO SCD, ELKO COUNTY	PLATE 10
DUCK VALLEY & OWYHEE SCD'S, ELKO COUNTY	PLATE 11
HUMBOLDT RIVER	PLATE 12
AUSTIN & EUREKA SCD'S, EUREKA & LANDER COUNTIES	PLATE 13
KINGS RIVER, PARADISE VALLEY & QUINN RIVER SCD'S	PLATE 14
VYA & GERLACH SCD'S, NEVADA & SURPRISE VALLEY SCD, CALIFORNIA	PLATE 15
LIST OF COOPERATORS	INSIDE BACK COVER

ALPHABETICAL INDEX TO NEVADA SNOW COURSES

This alphabetical tabulation of snow courses has been prepared to provide readers with rapid access to basic snow survey data. The reader is referred to the "Index to Nevada Snow Courses by basins" and "Nevada Snow Courses" map on the next page for other detailed information such as location, elevation, basin and sub-basin, state and numbering system legend.

SNOW COURSE	NO.	PLATE	SNOW COURSE	NO.	PLATE
BAKER #1	14L1	8	LAKE LUCILLE	20L4	2
BAKER #2	14L2	8	LAMANCE CREEK	17H5	12,14
BAKER #3	14L3	8	LAMOILLE #1	15J4	9,12
BALO MOUNTAIN	19H1	15	LAMOILLE #2	15J5	9,12
BARBER CREEK	20H5	15	LAMOILLE #3	15J6	9,12
BEAR CREEK	19H1MA	11,12	LAMOILLE #4	15J7	9,12
BERRY CREEK	19K2	8	LAMOILLE #5	15J8	9,12
BIG BENO	15H4M	11,12	LAPON MEADOW	18L1	5
BIG CREEK CAMPGROUND	17K1	13	LAUREL DRAW	16H5	11
BIG CREEK MINE	17K2	13	LEAVITT MEADOWS	19L8	5
BIG CREEK, UPPER	17K3	13	LEE CANYON #1	15N4	7
BIRO CREEK	14K1	8	LEE CANYON #2	15N3	7
BLUE LAKES	19L5	3,4	LEONARD CREEK	18H2	14
BOCA #2	20K14	2,4	LITTLE BALLY MTN.	19H4a	15
BUCKEYE FORKS	19L11	5	LITTLE VALLEY	19K3	2
BUCKEYE ROUGHS	19L10	5	LOUSE CANYON	17G4a	14
BUCKSKIN, LOWER	17H2	12,14	LOWER CORRAL	17L1	7,13
BUCKSKIN, UPPER	17H1	12,14			
CAMPITO MOUNTAIN	18M2	6	MARLETTE LAKE	19K4M	2,3
CARSON PASS, UPPER	19L4	3,4	MARTIN CREEK	17H3	12,14
CAVE CREEK	15J13	8,9,12	MATHEW CANYON	14M1	7
CEGAR PASS	20H6	15	MIOAS	16H3	11,12
CENTER MOUNTAIN	19L12A	5	MONTGOMERY PASS	18M1	6
CLARK CANYON	15N2	7	MT. GRANT	18L2	5
CLEAR CREEK	19K5	3,4	MT. ROSE	19K2	2
CORRAL CANYON	15J12	9,12	MURRAY SUMMIT	14K3	8
DAGGETTS PASS	19L14	2,3,4	OREGON CANYON	17G5a	14
DENIO CREEK	18G6a	14			
DISASTER PEAK	18H1	14	PINCHOT CREEK	18M3a	6
DISMAL SWAMP	20H3a	15	PINE CANYON	14M2	7
DONNER LAKE #1	20K11	2	PIUTE PASS	18M4a	6
DONNER PARK #2	20K21	2	POISON FLAT	19L6A	3,4
DONNER SUMMIT	20K10	2,4	POLE CREEK R. S.	15H14	10
DORSEY BASIN	15J1	9,12			
DRY CREEK	15J3	9,12	QUINN RIDGE	17H6a	14
EAGLE PEAK	20H7	15			
ECHO SUMMIT	20L5	2,3,4	RAINBOW CANYON #2	15N7	7
FOROYCE LAKE	20K7	2,4	REO POINT	15H18a	10
49-MTN.	19H3	15	RESERVATION CREEK	20H4	15
FOX CREEK	15H2	11	RICHARDSONS #2	20L3	2
FREL BENCH	19L2	2	ROBINSON SUMMIT	15K1	8
FRY CANYON	15H7	11,12	RODGO FLAT	15H6M	11,12
FURNACE FLAT	20K8	2,4	RUBICON #1	20L1	2
GLENBROOK #2	19K6	2,3	RUBICON #2	20L2	2
GOAT CREEK	15H13	10	RYAN RANCH	15J2	9,12
GOLCONOA #2	17J2	12			
GOLO CREEK	15H5	11,12	SAGE HEN CREEK	20K6	2,4
GRANITE PEAK	17H4	12,14	76 CREEK	15H3A	11,12
GREEN MOUNTAIN	15J9	9,12	SILVER CREEK #2	14K7	8
HAGANS MEADOW	19L3M	2,4	SONORA PASS	19L7M	3,5
HAGER CANYON	15J14	8,9,12	SQUAW VALLEY #2	20K19	2
HARRISON PASS #1	15J10	9,12			
HARRISON PASS #2	15J11	9,12	TAHOE CITY	20K16	2,4
HAYS CANYON	19H2	15	TAYLOR CANYON	15H9M	11,12
HOLE-IN-MTN.	15J15	9,12	TIOGA PASS	19M1	5
HUMMINGBIRD SPRINGS	15H15A	10,12	TREMEAN RANCH	15H8	11,12
INDEPENDENCE CAMP	20K4M	2,4	TROUGH SPRINGS	15N1	7
INDEPENDENCE CREEK	20K3	2	TROUT CREEK	18G5a	14
INDEPENDENCE LAKE	20K5	2	TROUT CREEK, LOWER	15H10	9,12
JACK CREEK, LOWER	16H1M	11,12	TROUT CREEK, UPPER	15H11	9,12
JACK CREEK, UPPER	16H2	11,12	TRUCKEE #2	20K13M	2
JACKS PEAK	16H4	11,12	UPPER CORRAL	17L2	7,13
JAKES CREEK	14H1	10,13	UPPER FISH VALLEY	19L16a	3
KALAMAZOO CREEK	14K8	8	UPPER TRUCKEE	19L1	2
KYLE CANYON	15N5	7			
			VIRGINIA LAKES	19L13M	5
			WARO CREEK	20K17M	2,4
			WARO MOUNTAIN #2	14K5	8
			WEBBER LAKE	20K2	2
			WEBBER PEAK	20K1	2
			WHITE RIVER #1	15L1	8
			WILLOW FLAT	19L9	5

INDEX TO NEVADA SNOW COURSES (By Basins)

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
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SNAKE RIVER BASIN

SNAKE RIVER

15H1MA	BEAR CREEK	31	46N	58E	7800
15G4M*	BIG BENO	30	45N	56E	6700
15H2	FOX CREEK	33	46N	58E	6800
15H13	GOAT CREEK	31	46N	60E	8800
15H5*	GOLD CREEK	31	45N	56E	6600
15H15A	HUMMINGBIRD SPRINGS	6	45N	60E	8945
14H1	JACKS CREEK	6	42N	62E	7000
15H14	POLE CREEK RANGER STATION	13	46N	59E	8330
15H18a	RED POINT	15	47N	61E	7940
15H3A	76 CREEK	6	44N	58E	7100

OWYHEE RIVER

15H4M	BIG BENO	30	45N	56E	6700
17H2*	BUCKSKIN, LOWER	25	45N	39E	6700
17H1*	BUCKSKIN, UPPER	11	45N	39E	7200
15H7*	FRY CANYON	31	43N	54E	6700
15H5	GOLD CREEK	31	45N	56E	6600
17H4*	GRANITE PEAK	22	44N	39E	7800
16H1M	JACK CREEK, LOWER	18	42N	53E	6800
16H2	JACK CREEK, UPPER	9	42N	53E	7250
16H4	JACKS PEAK	28	42N	53E	8420
16H5	LAUREL DRAW	20	45N	53E	6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440
17H3*	MARTIN CREEK	18	44N	40E	6700
15H6M*	ROOEO FLAT	36	43N	53E	6800
15H9M	TAYLOR CANYON	35	39N	53E	6200
15H8*	TREMEWAN RANCH	9	39N	55E	5700

INTERIOR

UPPER HUMBOLDT RIVER

15H1MA*	BEAR CREEK	31	46N	58E	7800
15H4M*	BIG BEND	30	45N	56E	6700
15J12	CORRAL CANYON	27	28N	57E	8500
15J1	DORSEY BASIN	28	35N	60E	8100
15J3	DRY CREEK	5	34N	60E	6500
15H2*	FOX CREEK	33	46N	58E	6800
15H7	FRY CANYON	31	43N	54E	6700
15H5*	GOLD CREEK	31	45N	56E	6600
15J9	GREEN MOUNTAIN	23	29N	57E	8000
15J10	HARRISON PASS #1	9	28N	57E	6600
15J11	HARRISON PASS #2	16	28N	57E	7400
16H1M*	JACK CREEK, LOWER	18	42N	53E	6800
16H2*	JACK CREEK, UPPER	9	42N	53E	7250
16H4*	JACKS PEAK	28	42N	53E	8420
15J4	LAMDILLE #1	15	32N	58E	7100
15J5	LAMDILLE #2	14	32N	58E	7300
15J6	LAMOILLE #3	24	32N	58E	7700
15J7	LAMOILLE #4	19	32N	59E	8000
15J8	LAMOILLE #5	31	32N	59E	8700
15H6M	RDDEO FLAT	36	43N	53E	6800
15J2	RYAN RANCH	1	34N	59E	5800
15H3A*	76 CREEK	6	44N	58E	7100
15H9M*	TAYLOR CANYON	35	39N	53E	6200
15H8	TREMEWAN RANCH	9	39N	55E	5700
15H10	TROUT CREEK, LOWER	28	37N	61E	6900
15H11	TROUT CREEK, UPPER	4	36N	61E	8500

LOWER HUMBOLDT RIVER

17K1	BIG CREEK CAMP GROUND	10	17N	43E	6600
17K2	BIG CREEK MINE	23	17N	43E	7600
17K3	BIG CREEK, UPPER	26	17N	43E	8000
17H2	BUCKSKIN, LOWER	25	45N	39E	6700
17H1	BUCKSKIN, UPPER	11	45N	39E	7200
17J2	GOLCDNOA #2	22	35N	39E	6000
17H4	GRANITE PEAK	22	44N	39E	7800
17H5	LAMANCE CREEK	13	42N	38E	6000
17L1	LOWER CORRAL	12	11N	40E	7500
17H3	MARTIN CREEK	18	44N	40E	6700
16H3	MIDAS	18	39N	46E	7200
17L2	UPPER CORRAL	20	11N	41E	8500

EASTERN NEVADA

14L1	BAKER #1	29	13N	69E	7950
14L2	BAKER #2	30	13N	69E	8950
14L3	BAKER #3	25	13N	68E	9250
14K2	BERRY CREEK	26	17N	65E	9100
14K1	BIRD CREEK	34	19N	65E	7500
15J13	CAVE CREEK	25	27N	57E	7500
15J14	HAGER CANYON	34	27N	57E	8000
15J15	HOLE-IN-MTN.	6	35N	61E	7900
14K8	KALAMAZDO CREEK	34	20N	65E	7400
14K3	MURRAY SUMMIT	25	16N	62E	7250
15K1	ROBINSON SUMMIT	34	18N	61E	7600
14K7	SILVER CREEK #2	30	16N	69E	8000
14K5	WARD MOUNTAIN #2	25	15N	62E	7875
15L1*	WHITE RIVER #1	31	13N	59E	7400

CENTRAL GREAT BASIN

18M2	CAMPITO MTN (CAL.)	19	5S	35E	10200
15N2	CLARK CANYON	8	19S	56E	9000
18G6a*	DENIO CREEK (OREG.)	14	41S	34E	6000
18M1	MONTGOMERY PASS	4	1N	33E	7100
18M3a	PINCHOT CREEK	28	1N	33E	9300
18M4a	PIUTE PASS (CAL.)	33	4S	33E	11700
15N1	TROUGH SPRINGS	23	18S	55E	8500

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
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NORTHERN GREAT BASIN

19H1	BALD MOUNTAIN	17	45N	21E	6720
20H5	BARBER CREEK	23	39N	16E	6500
20H6	CEDAR PASS	12	43N	14E	7100
18H1	DISASTER PEAK	8	47N	34E	6500
20H3a	DISMAL SWAMP (CAL.)	31	48N	22E	7000
20H7	EAGLE PEAK	35	40N	15E	8300
19H3	49-MTN	7	42N	19E	6000
19H2	HAYS CANYON	1	39N	18E	6400
18H2	LEONARDO CREEK	13	42N	28E	5900
19H4a	LITTLE BALLY MTN	8	45N	19E	6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240
17H6a	QUINN RIDGE	9	47N	41E	6300
20H4	RESERVATION CREEK	12	46N	15E	5900
18G5a*	TRDUT CREEK (OREG.)	10	41S	38E	7800

LAKE TAHOE

19L14	DAGGETTS PASS	19	13N	19E	7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7500
19L2	FREEL BENCH (CAL.)	36	12N	18E	7300
19K6	GLENBROOK #2	13	14N	18E	6900
19L3M	HAGANS MEADOW (CAL.)	36	12N	18E	8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8400
19K4M	MARLETTE LAKE	13	15N	18E	8000
19K2*	MT. RDSE	7	17N	19E	9000
20L3	RICHARDSONS #2 (CAL.)	6	12N	18E	6500
20L1	RUBICON #1 (CAL.)	6	13N	17E	8100
20L2	RUBICON #2 (CAL.)	6	13N	17E	7500
20K16	TAHOE CITY (CAL.)	6	15N	17E	6250
19L1	UPPER TRUCKEE (CAL.)	21	12N	18E	6400
20K17M*	WARD CREEK (CAL.)	21	15N	16E	7000

TRUCKEE RIVER

20K14	BDCA #2 (CAL.)	28	18N	17E	5900
20K11	DONNER LAKE #1 (CAL.)	14	17N	15E	5950
20K21	DONNER PARK #2 (CAL.)	3	16N	16E	6000
20K10*	DONNER SUMMIT (CAL.)	25	17N	14E	6900
20K7*	FOROYCE LAKE (CAL.)	34	18N	13E	6500
20K8*	FURNACE FLAT (CAL.)	10	17N	13E	6600
20K4M	INDEPENDENCE CAMP (CAL.)	34	19N	15E	7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500
20K5	INDEPENDENCE LAKE (CAL.)	9	18N	15E	8450
19K3	LITTLE VALLEY	17	16N	19E	6300
19K2	MT. ROSE	7	17N	19E	9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E	6500
20K19	SOUAW VALLEY #2 (CAL.)	6	15N	16E	7500
20K16*	TAHOE CITY (CAL.)	6	15N	17E	6250
20K13M	TRUCKEE #2 (CAL.)	22	17N	16E	6400
20K17M*	WARD CREEK (CAL.)	21	15N	16E	7000
20K2	WEBBER LAKE (CAL.)	20	19N	14E	7000
20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000

CARSON RIVER

19L5	BLUE LAKES (CAL.)	30	9N	19E	8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600
19K5	CLEAR CREEK	6	14N	19E	7300
19L6A	POISON FLAT (CAL.)	25	8N	21E	7900
19L16a	UPPER FISH VALLEY (CAL.)	18	7N	22E	8050

WALKER RIVER

19L11	BUCKEYE FORKS (CAL.)	20	4N	23E	8500
19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E	7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400
18L1	LAPON MEADOW	36	8N	28E	9000
19L8	LEAVITT MEADOWS (CAL.)	4	5N	22E	7200
18L2	MT. GRANT	23	8N	28E	9000
19L7M	SDNDRA PASS (CAL.)	1	5N	21E	8800
19M1*	TIDGA PASS (CAL.)	30	1N	25E	9900
19L13M	VIRGINA LAKES (CAL.)	5	2N	25E	9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E	8250

COLORADO

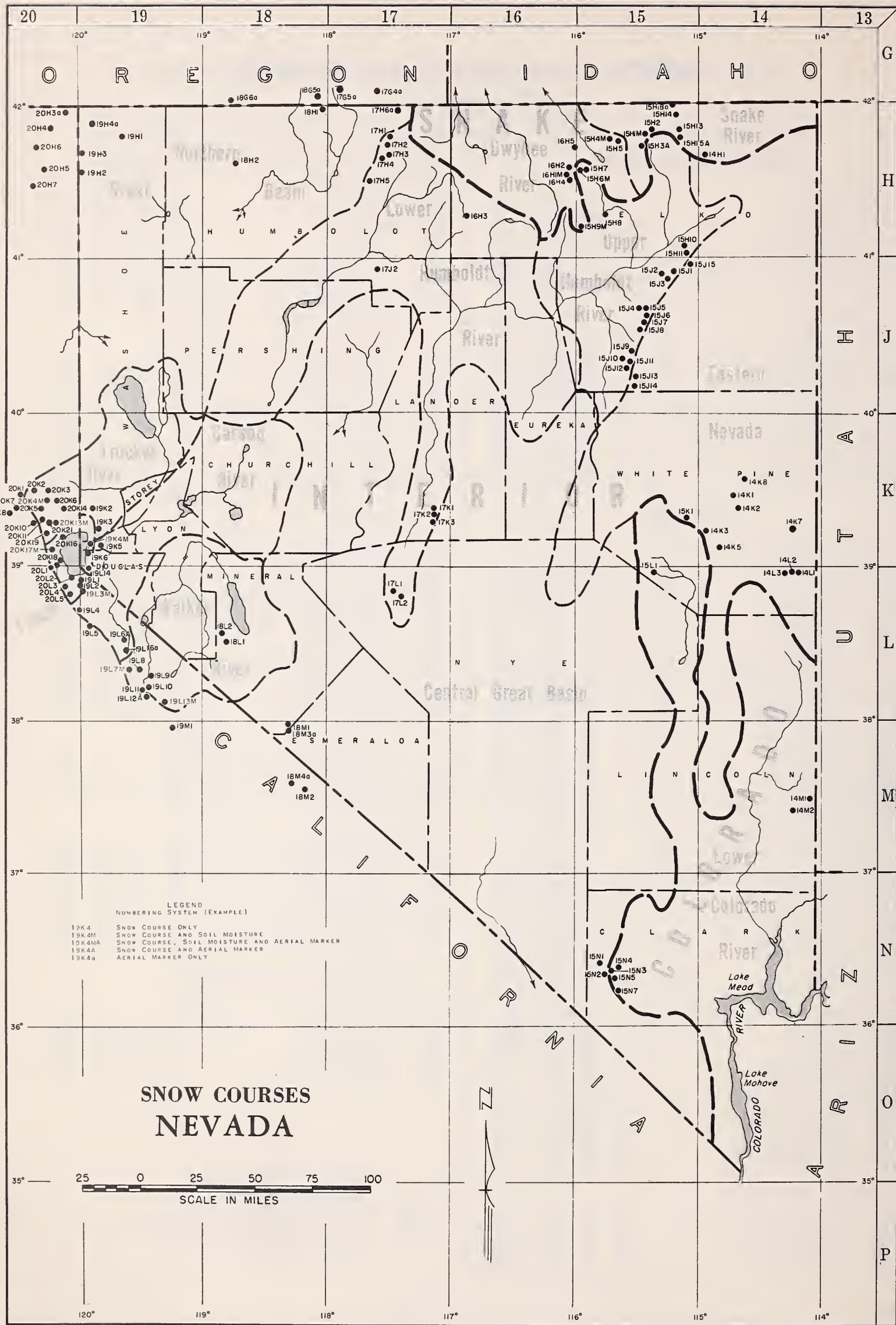
LOWER COLORADO RIVER

15N5	KYLE CANYON	26	19S	56E	8200
15N4	LEE CANYON #1	10	19S	56E	8300
15N3	LEE CANYON #2	9	19S	56E	9000
14M1	MATHEW CANYON	11	5S	70E	6000
14M2	PINE CANYON	11	6S	69E	6200
15N7	RAINBOW CANYON #2	6	20S	57E	8100
15L1	WHITE RIVER #1	31	13N	59E	7400

LEGEND NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4M	SNOW COURSE AND SOIL MDISTURE
19K4MA	SNOW COURSE, SOIL MDISTURE AND AERIAL MARKER
19K4A	SNOW COURSE AND AERIAL MARKER
19K4a	AERIAL MARKER ONLY

* LOCATED ON ADJACENT WATERSHED



WATER SUPPLY OUTLOOK
FOR NEVADA

March 1, 1963

* * * * *

* The below normal 1963 mountain snowpack accumulation pattern *
* continues to persist in Nevada. With but few exceptions, *
* March 1, 1963 snow survey measurements are the lowest on *
* record for March 1. Elevation of the effective snow line is *
* 1500-2000 feet higher than normal. Reservoir storage is *
* good. Water users without reservoired water supply will *
* have extremely limited irrigation water. Water users with *
* supplemental stored water will have a fair irrigation *
* season. April-July 1963 streamflow forecasts range from *
* 12-46 percent of average in the Humboldt basin, 49-54 per- *
* cent in the Walker basin, 15-32 percent in the Carson *
* basin and 20-28 percent in the Tahoe-Truckee basin. Nevada *
* water users should consider readopting the effective water *
* conservation and water management procedures used during *
* the 1959-61 drought period. *

* * * * *

STREAMFLOW FORECASTS

March 1 forecasts of April-July 1963 streamflow, assuming normal climatic conditions the remainder of the season, range from 54 percent of average for the West Walker near Coleville to 15 percent for Carson at Ft. Churchill and 12 percent for Humboldt at Comus.

The Owyhee River is forecast to flow 15-17 percent of average during April-July 1963. Lamoille Creek should flow 46 percent and South Fork Humboldt at 20 percent of their respective April-July averages. The East Carson and West Carson flow is anticipated to be 32 and 30 percent of average.

Lake Tahoe is forecast to rise 0.30 foot from April 1 assuming gates closed. This is 20 percent of average. With normal March inflow plus the predicted rise after April 1, Lake Tahoe would reach an elevation of 6225.45 above sea level.

RESERVOIR STORAGE

Stored water in Nevadas principal reservoirs as of March 1, 1963 is much better than last year this date. Wild Horse, Boca, Lahontan, Topaz and Bridgeport Reservoirs hold above average March 1 storage amounts. Lake Tahoe held 235,000 acre feet on March 1, which is 51 percent of average and nearly four times its March 1, 1962 contents. Rye Patch held 80,000 acre feet on March 1 or 78 percent of its March 1 average. Last year this date, it held 15,000 acre feet.

This stored water represents carryover from last year and late January-early February flood water inflow. It will partially offset the anticipated below normal April-July 1963 streamflow.

SOIL MOISTURE CONDITIONS

March 1 soil moisture readings and soil moisture reports from Nevada snow surveyors indicate variable mountain soil moisture conditions. East slope Sierra watersheds soils as far south as the West Walker are well wetted. Mountain soils in the East Walker are damp to moist.

Mountain soils in the Humboldt basin are moderately well wetted but some snow-melt water will be lost to soil priming. Soils in White Pine County and southern Nevada are rated only damp.

Except for central and southern Nevada, spring range forage growth should be fair to good.

SNOW COVER

March 1963 snowfall would have to be 300-700 percent of average in order to bring the mountain snowpack up to a near normal April 1 condition. This is extremely unlikely. Except for a few high elevation snow courses, the March 1, 1963 water content of snow is the lowest of record.

March 1, 1963 water content of snow as a percent of the 15 year 1943-57 March 1 average was as follows: Tahoe-Truckee Basin, 15 percent; Walker Basin, 60-75 percent; Carson Basin 44 percent; and Humboldt Basin, 31 percent.

NEVADA STREAMFLOW FORECASTS - April 1, 1963

The following summarized runoff forecasts are based principally on mountain snow cover and the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

Forecast Stream	April-July, Streamflow Thousands Acre Feet				
	Forecast 1963	15-Yr. Av. 1943-57	1963 as % of 15-Yr. Av.	Measured Runoff	
				1962	1961
Owyhee River nr. Gold Creek, Nev. ¹	4	27	15	29	2
Owyhee River nr. Owyhee, Nev. ¹	15	86	17	85	17
Lamoille Creek nr. Lamoille, Nev.	13	28	46	32	17
So. Fk. Humboldt nr. Elko, Nev.	15	74	20	97	39
Humboldt River at Palisade, Nev.	35	225	16	267	51
Humboldt River at Comus, Nev.	17	143	12	224	29
Martin Creek nr. Paradise, Nev.	4	17	24	21	6
East Walker nr. Bridgeport, Cal. ²	30	61	49	69	15
West Walker below E. Fk. nr. Coleville, Cal.	80	148	54	155	72
East Carson nr. Gardnerville, Nev.	60	189	32	192	87
West Carson at Woodfords, Cal.	16	54	30	53	22
Carson River nr. Carson City, Nev.	35	184	19	186	46
Carson River at Ft. Churchill, Nev.	25	171	15	167	27
Little Truckee River above Boca, California ⁵	24	86	28	99	27
Truckee River at Farad, Cal. ^{3, 5}	70	255	27	261	105
Lake Tahoe ^{4, 5}	0.3	1.50	20	1.22	0.67
Virgin River at Virgin, Utah	16.5*	44	38	--	17
Salmon Falls Creek nr. San Jacinto, Nevada	30** 29***	88 85	34 34	118 115	26 24

1. Corrected for storage in Wild Horse Reservoir.

2. For period April through August corrected for storage in Bridgeport Reservoir.

3. Exclusive of Tahoe and corrected for storage in Boca Reservoir.

4. Maximum rise, in feet, from April 1, assuming gates closed.

5. Forecast issued by Truckee Basin Water Committee, composed of Truckee-Carson Irrigation District, Sierra Pacific Power Co. and Washoe County Water Conservation District.

* Forecast period of April-June. ** Forecast period of March-September

*** Forecast period of March-July. -2-

NEVADA

STATUS OF RESERVOIR STORAGE

MARCH 1, 1963

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)	USABLE STORAGE - 1000 ACRE FEET			
			1963	1962	1961	MARCH 1 15-YR.AVE. 1943-57
Owyhee	Wild Horse	33	20	18	14	13
Lower Humboldt	Rye Patch	179	80	15	9	103
Colorado	Mohave	1,810	1,702	1,750	1,702	1,467*
Colorado	Mead	27,217	22,496	18,249	18,755	16,929
Tahoe	Tahoe	732	235	62	105	465
Truckee	Boca	41	32	3	10	6
Carson	Lahontan	286	238	75	92	215
West Walker	Topaz	59	52	19	13	42
East Walker	Bridgeport	42	39	18	11	33

* 1950-57

TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz
and Bridgeport Reservoirs in 1000's Acre Feet

MONTH	1958-59	1959-60	1960-61	1961-62	1962-63	AVERAGE 1943-57
October 1	985	489	263	65	345	732
January 1	890	367	206	57	419	787
February 1	947	398	218	73	558	842
March 1	1,038	494	254	210	696	877
April 1	1,066	592	285	318		923
May 1	1,036	632	300	499		971

TOTAL USABLE CAPACITY 1,372

1. The first part of the paper discusses the importance of understanding the underlying mechanisms of the system. This is crucial for developing effective interventions and policies. The authors argue that a deep understanding of the system's dynamics is essential for making informed decisions.

2. The second part of the paper focuses on the role of data in understanding the system. The authors emphasize the need for high-quality data and the importance of using appropriate statistical methods to analyze it. They also discuss the challenges of data collection and analysis in this context.

3. The third part of the paper explores the role of theory in understanding the system. The authors argue that theory provides a framework for understanding the system's behavior and for developing hypotheses that can be tested using data. They also discuss the importance of integrating theory and data in the research process.

4. The fourth part of the paper discusses the role of simulation in understanding the system. The authors argue that simulation can be a valuable tool for exploring the system's behavior under different conditions and for testing hypotheses. They also discuss the limitations of simulation and the need for careful interpretation of results.

5. The fifth part of the paper discusses the role of policy in understanding the system. The authors argue that policy can have a significant impact on the system's behavior and that understanding the system's dynamics is essential for developing effective policies. They also discuss the challenges of policy implementation and the need for ongoing evaluation and adjustment.

6. The sixth part of the paper discusses the role of communication in understanding the system. The authors argue that communication is essential for sharing research findings and for developing a common understanding of the system. They also discuss the challenges of communication and the need for clear and concise language.

7. The seventh part of the paper discusses the role of education in understanding the system. The authors argue that education is essential for developing the skills and knowledge needed to understand the system. They also discuss the challenges of education and the need for ongoing learning and development.

8. The eighth part of the paper discusses the role of research in understanding the system. The authors argue that research is essential for advancing our understanding of the system and for developing effective interventions and policies. They also discuss the challenges of research and the need for ongoing collaboration and communication.

9. The ninth part of the paper discusses the role of practice in understanding the system. The authors argue that practice is essential for applying research findings and for developing effective interventions and policies. They also discuss the challenges of practice and the need for ongoing evaluation and adjustment.

10. The tenth part of the paper discusses the role of policy in understanding the system. The authors argue that policy can have a significant impact on the system's behavior and that understanding the system's dynamics is essential for developing effective policies. They also discuss the challenges of policy implementation and the need for ongoing evaluation and adjustment.

11. The eleventh part of the paper discusses the role of communication in understanding the system. The authors argue that communication is essential for sharing research findings and for developing a common understanding of the system. They also discuss the challenges of communication and the need for clear and concise language.

12. The twelfth part of the paper discusses the role of education in understanding the system. The authors argue that education is essential for developing the skills and knowledge needed to understand the system. They also discuss the challenges of education and the need for ongoing learning and development.

13. The thirteenth part of the paper discusses the role of research in understanding the system. The authors argue that research is essential for advancing our understanding of the system and for developing effective interventions and policies. They also discuss the challenges of research and the need for ongoing collaboration and communication.

14. The fourteenth part of the paper discusses the role of practice in understanding the system. The authors argue that practice is essential for applying research findings and for developing effective interventions and policies. They also discuss the challenges of practice and the need for ongoing evaluation and adjustment.

15. The fifteenth part of the paper discusses the role of policy in understanding the system. The authors argue that policy can have a significant impact on the system's behavior and that understanding the system's dynamics is essential for developing effective policies. They also discuss the challenges of policy implementation and the need for ongoing evaluation and adjustment.

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17. The seventeenth part of the paper discusses the role of education in understanding the system. The authors argue that education is essential for developing the skills and knowledge needed to understand the system. They also discuss the challenges of education and the need for ongoing learning and development.

18. The eighteenth part of the paper discusses the role of research in understanding the system. The authors argue that research is essential for advancing our understanding of the system and for developing effective interventions and policies. They also discuss the challenges of research and the need for ongoing collaboration and communication.

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SNOW WATER ACCUMULATION in NEVADA by BASIN

MARCH 1, 1963

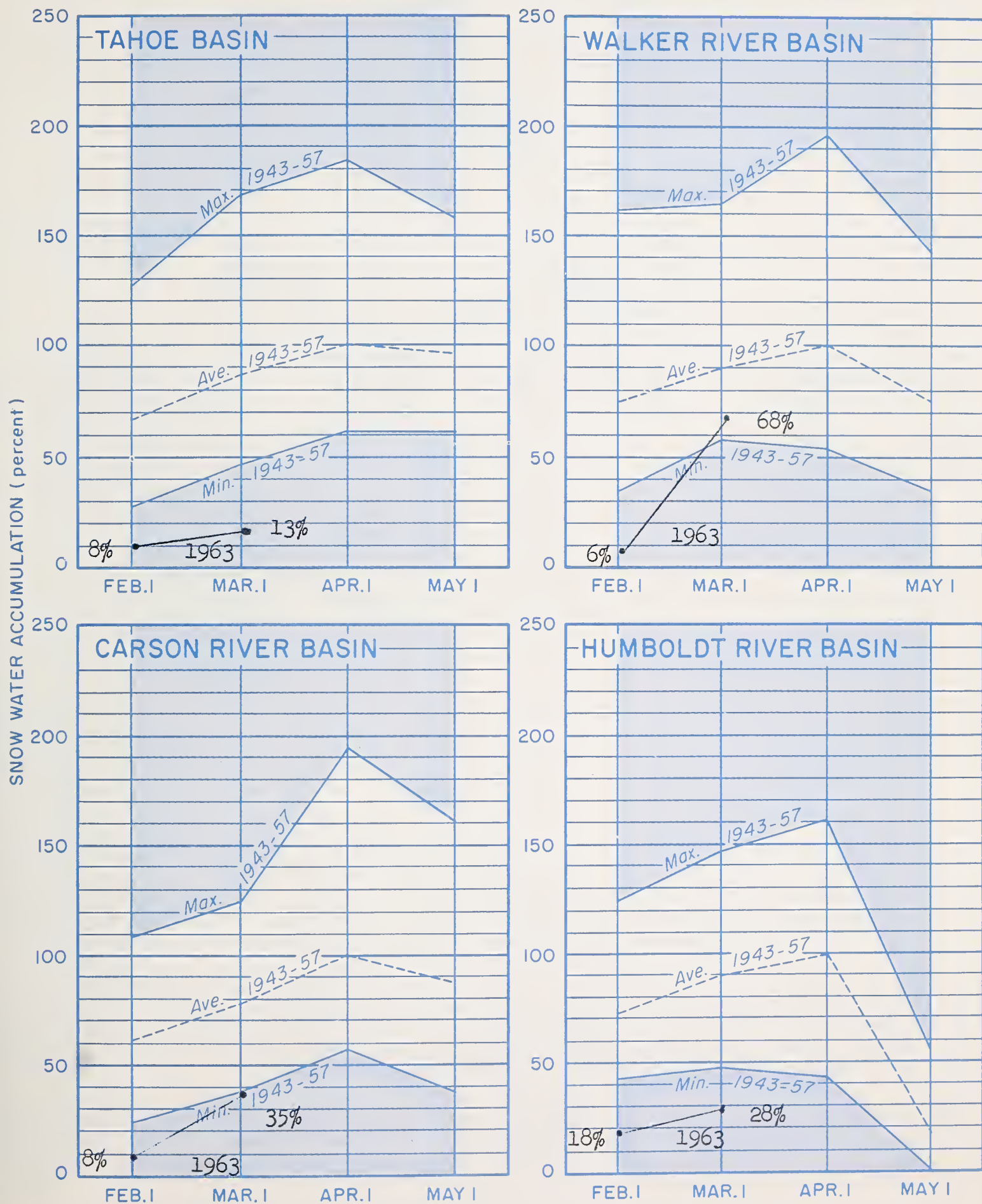


Plate 1

Page 1

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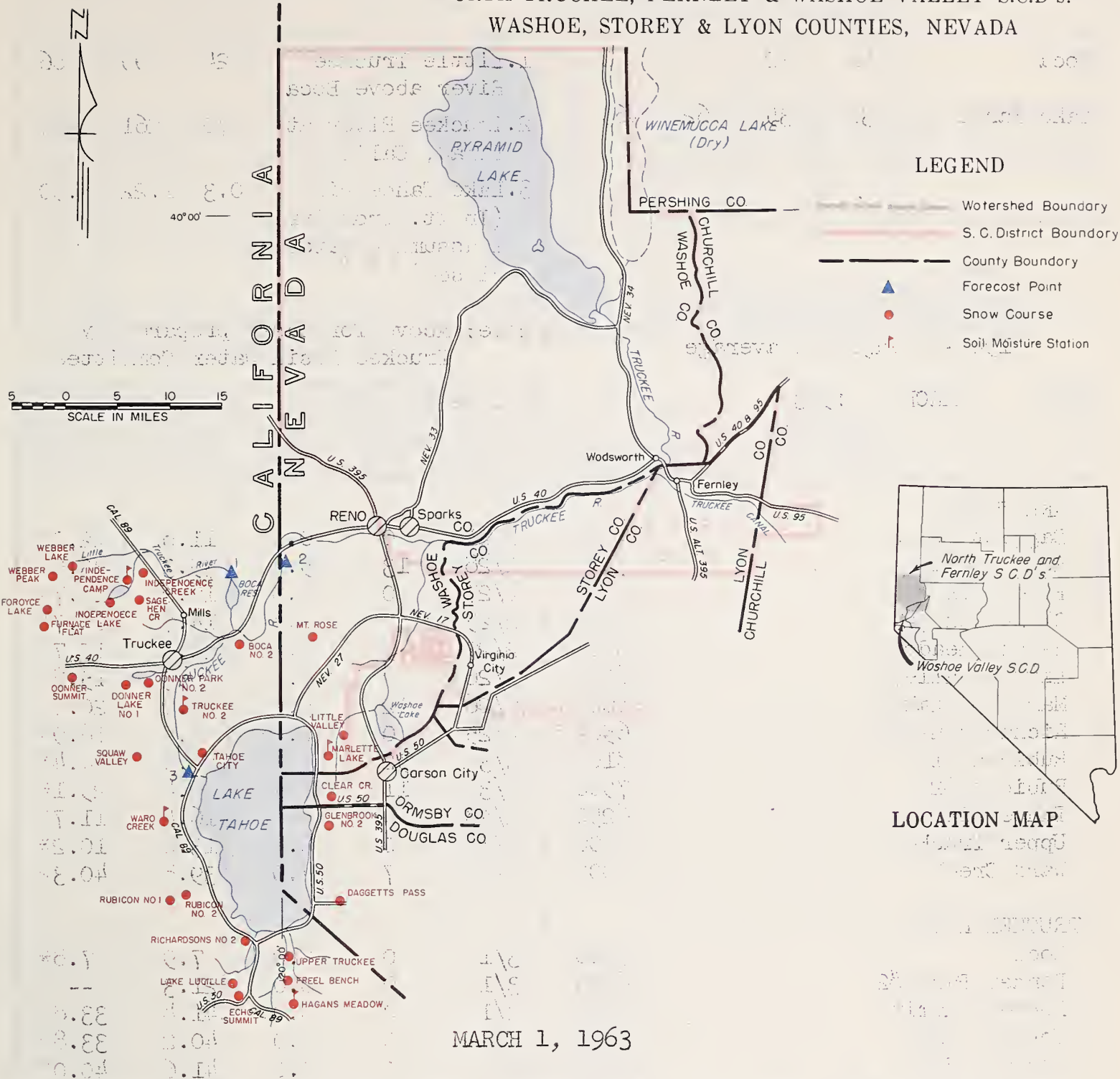
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SNOW SURVEY & WATER SUPPLY FORECAST

NORTH TRUCKEE, FERNLEY & WASHOE VALLEY S.C.D's.

WASHOE, STOREY & LYON COUNTIES, NEVADA



Much below normal April-July 1963 streamflow is in prospect on Tahoe-Truckee streams. The March 1 snowpack is extremely poor. Below 7000 feet there is no snow. Every snow course in the Tahoe-Truckee basin has a March 1 water content which is a period of record low. Water content of the snow is 0 percent of average below 7000 feet and 22 percent of average above 7000 feet.

The Truckee Basin Water Committee forecasts that Lake Tahoe will rise .30 foot from April 1 through the runoff period. The March 1, 1963 elevation of Lake Tahoe was 6224.95. With normal March inflow plus .30 foot from April 1, the Lake would rise to 6225.45 maximum elevation if gates were kept closed.

The Committee forecasts April-July flow of Truckee at Farad at 70,000 acre feet and Little Truckee above Boca at 24,000. This is 28 and 29 percent of their respective April-July 1943-57 averages.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Boca	41	32	3	6
Lake Tahoe	732	235	62	465

NOTE:

All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Little Truckee River above Boca	24	99	86
2. Truckee River at Farad, Calif.	70	261	255
3. Lake Tahoe rise (In ft. from Apr. 1 assuming gates closed)	0.3	1.22	1.50
Note: Above forecasts prepared by Truckee Basin Water Committee			

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
LAKE TAHOE						
Daggetts Pass	7350	2/26	0	0.0	11.8	12.0*
Echo Summit	7500	2/28	13	5.4	35.3	33.6
Freel Bench	7300	2/27	0	0.0	16.2	11.7*
Glenbrook #2	6900	2/25	4	1.8	14.5	12.7*
Hagans Meadow	8000	2/27	3	2.4b	20.8	17.7*
Little Valley	6300	2/26	0	0.0	11.3	15.8*
Marlette Lake	8000	2/26	12	5.2	20.8	20.5*
Richardsons #2	6500	2/25	0	0.0	25.8	16.9*
Rubicon #1	8100	3/3	52	20.7	42.9	44.4*
Rubicon #2	7500	3/3	11	3.4	30.4	25.1*
Tahoe City	6250	2/28	0	0.0	16.4	11.7*
Upper Truckee	6400	2/27	0	0.0	13.6	10.2*
Ward Creek	7000	2/28	7	4.0	39.8	40.3*
TRUCKEE RIVER						
Boca	5900	3/1	0	0.0	7.9	7.8*
Donner Park #2	6000	3/1	0	0.0	21.3	--
Donner Summit	6900	3/1	0	0.0	41.4	33.8
Fordyce Lake	6500	3/1	0	0.0	40.2	33.8*
Furnace Flat	6600	3/1	0	0.0	41.6	40.0*
Independence Camp	7000	3/1	0	0.0	23.4	21.0*
Independence Creek	6500	3/1	0	0.0	17.4	13.2*
Independence Lake	8450	3/1	37	14.6	39.2	31.2*
Sage Hen Creek	6500	3/2	0	0.0	23.8	19.3*
Squaw Valley #2	7500	3/2	31	13.6	55.8	--
Truckee #2	6400	3/2	0	0.0	19.7	16.7*

(Continued from front of Plate 2)

Boca Reservoir held 32,000 acre feet on March 1, 1963 which is 79 percent of its 41,000 acre feet of usable capacity. Lake Tahoe with 235,000 acre feet in storage as of March 1 is 50 percent of average and 32 percent of capacity.

Mountain soils are well wetted. Very little of the below normal snowpack will be lost to soil priming.

Water users should strive for maximum water management efficiency during the coming irrigation season. The effective practices adopted in 1961 would merit consideration.

SNOW SURVEY & WATER SUPPLY FORECAST

CARSON VALLEY S.C.D., NEVADA
and ALPINE S.C.D., CALIFORNIA



Carson Valley water users can expect a much below normal irrigation water supply this coming summer. April-July 1963 streamflow will be similar to 1961 or slightly worse.

There is no snow below 7500 feet. Above 7500 feet the snowpack improves slightly with elevation and from north to south along the Sierra crest. In total the Carson watershed snowpack is only 27 percent of the March 1 average.

Plate 3

(Over)

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	238	75	215

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Carson nr. Gardnerville	60	192	189
2. West Carson at Woodfords, Calif.	16	53	54
3. Carson River nr. Carson City	35	186	184
4. Carson River at Ft. Churchill	25	167	171
Date 200 c.f.s. flow E. Carson nr. Gardnerville	6/22	7/26	7/22

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Carson Pass	8600	2/26	34	12.9	33.7	28.2
Clear Creek	7300	2/26	0	0.0	17.8	14.3*
Daggetts Pass	7350	2/26	0	0.0	11.8	12.0*
Echo Summit	7500	2/28	13	5.4	35.3	33.6
Glenbrook #2	6900	2/25	4	1.8	14.5	12.7*
Marlette Lake	8000	2/26	12	5.2	20.8	20.5
Poison Flat	7900	2/28	24	9.6a	22.2a	--
Sonora Pass	8800	2/25	32	13.2	25.3	21.2*
Upper Fish Valley	8050	2/28	T	T a	18.0a	--

a Aerial snow depth gage; water content estimated

(Continued from front)

Soils are well wetted and will require little snowmelt water to become primed.

Storage as of February 28 1963 in Lahontan is above average at 238,000 acre feet.

The East Carson near Gardnerville is forecast to flow 60,000 acre feet during April-July which is 32 percent of average. The West Carson with a slightly poorer snowpack should flow 16,000 acre feet during April-July or 30 percent of average.

East Carson is forecast to drop to 200 c.f.s. on June 22 which is 30 days earlier than normal.

Downstream at Carson City and Ft. Churchill the Carson River is forecast to flow 35,000 and 25,000 acre feet or 19 percent and 15 percent of the April-July average.

Carson Valley water users should plan their cropping and water use program along the lines of their 1961 experience.

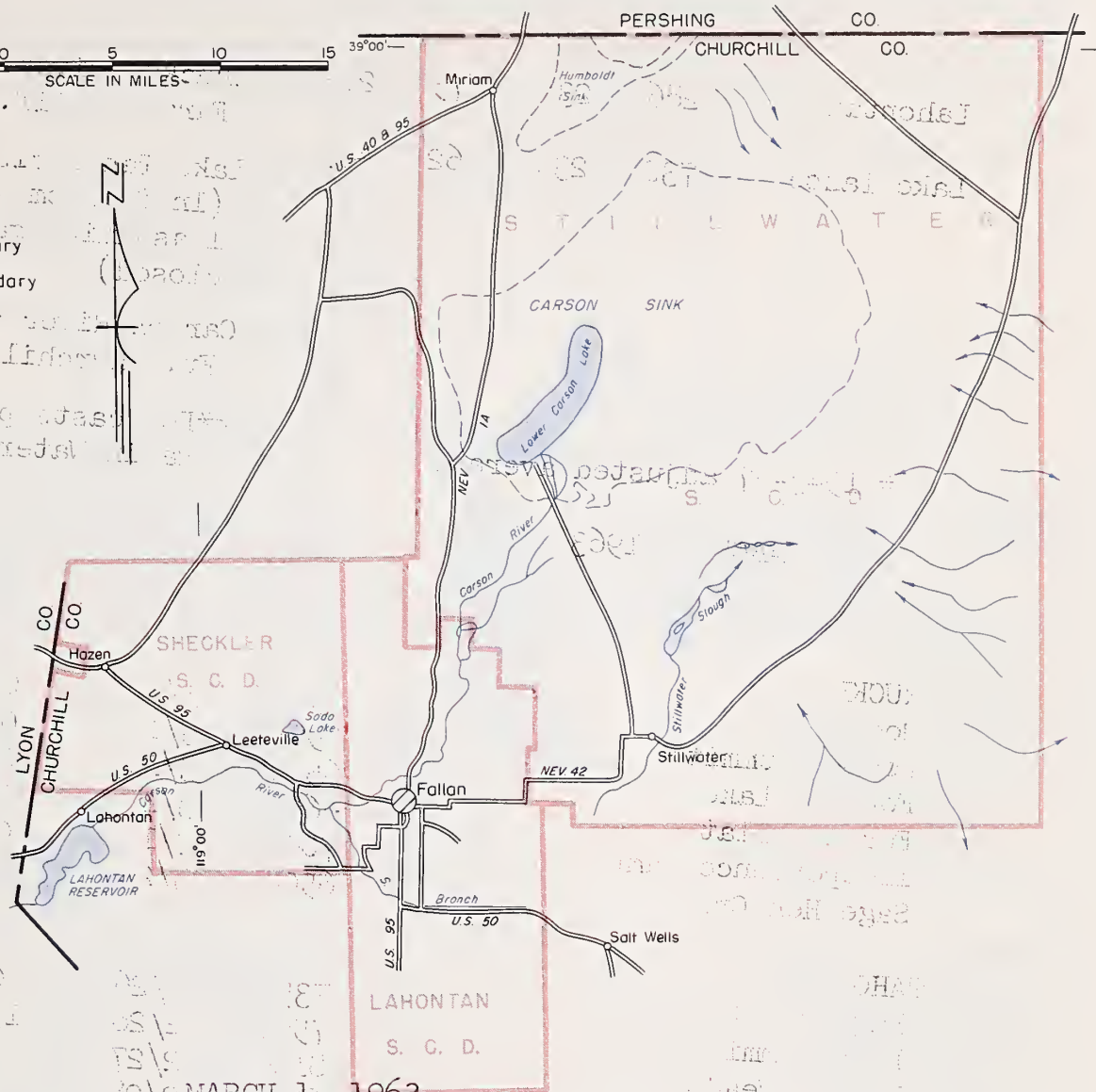
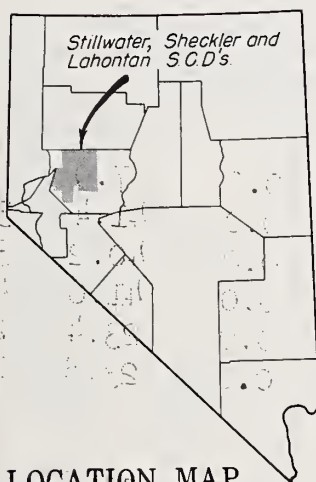
SNOW SURVEY & WATER SUPPLY FORECAST

STILLWATER, SHECKLER, LAHONTAN S.C.D.'s. & VICINITY

CHURCHILL COUNTY, NEVADA

LEGEND

- Watershed Boundary
- S. C. District Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course



The March 1, 1963 snowpack in the Tahoe-Truckee Carson watersheds is the poorest of March 1 record. In a normal year there should be 30-35 percent of the mountain snowpack on the ground in these basins by March 1. This year there is only 13-35 percent of a normal winters accumulation.

Lahontan storage as of March 1 was 238,000 acre feet which is only 48,000 acre feet less than capacity (286,000 acre feet). Last year at this time Lahontan held 75,000 acre feet.

Water users in the Fallon area should have a fair year with stored water offsetting in part the poor April-July streamflow in prospect on the Truckee and Carson Rivers.

Carson River at Ft. Churchill is forecast to flow 25,000 acre feet or 15 percent of the April-July average. During the same period Truckee at Farad is forecast to flow 70,000 acre feet or 27 percent of average. Lake Tahoe held 235,000 acre feet on March 1, 1963. The Lake is forecast to rise 0.30 foot from April 1 assuming gates closed.

Mountain soils are well wetted and will absorb little of the below normal snow-melt water.

Water users should carefully manage their irrigation water to obtain maximum efficiency. Water management practices found effective in the recent dry years merit consideration.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	238	75	215
Lake Tahoe	732	235	62	465

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Truckee River at Farad, Calif.**	70	261	255
Lake Tahoe rise** (In ft. from April 1 assuming gates closed)	0.30	1.22	1.50
Carson River at Ft. Churchill	25	167	171

**Forecasts prepared by Truckee Basin Water Committee.

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
TRUCKEE						
Boca #2	5900	3/1	0	0.0	7.9	7.8*
Donner Summit	6900	3/1	0	0.0	41.4	33.8
Fordyce Lake	6500	3/1	0	0.0	40.2	33.8*
Furnace Flat	6600	3/1	0	0.0	41.6	40.0*
Independence Camp	7000	3/1	0	0.0	23.4	21.0*
Sage Hen Creek	6500	3/2	0	0.0	23.8	19.3*
TAHOE						
Daggetts Pass	7350	2/26	0	0.0	11.8	12.0*
Echo Summit	7500	2/28	13	5.4	35.3	33.6
Hagans Meadow	8100	2/27	3	2.4b	20.8	17.7*
Tahoe City	6250	2/28	0	0.0	16.4	11.7*
Ward Creek	7000	2/28	7	4.0	39.8	40.3*
CARSON RIVER						
Carson Pass	8600	2/28	34	12.9	33.7	28.2
Clear Creek	7300	2/26	0	0.0	17.8	14.3*

b. Ice cover on the Truckee River at Farad, Calif. is reported to be about 10 inches thick. The poor quality of the snow and the low temperature are reported to be the cause of the ice cover.

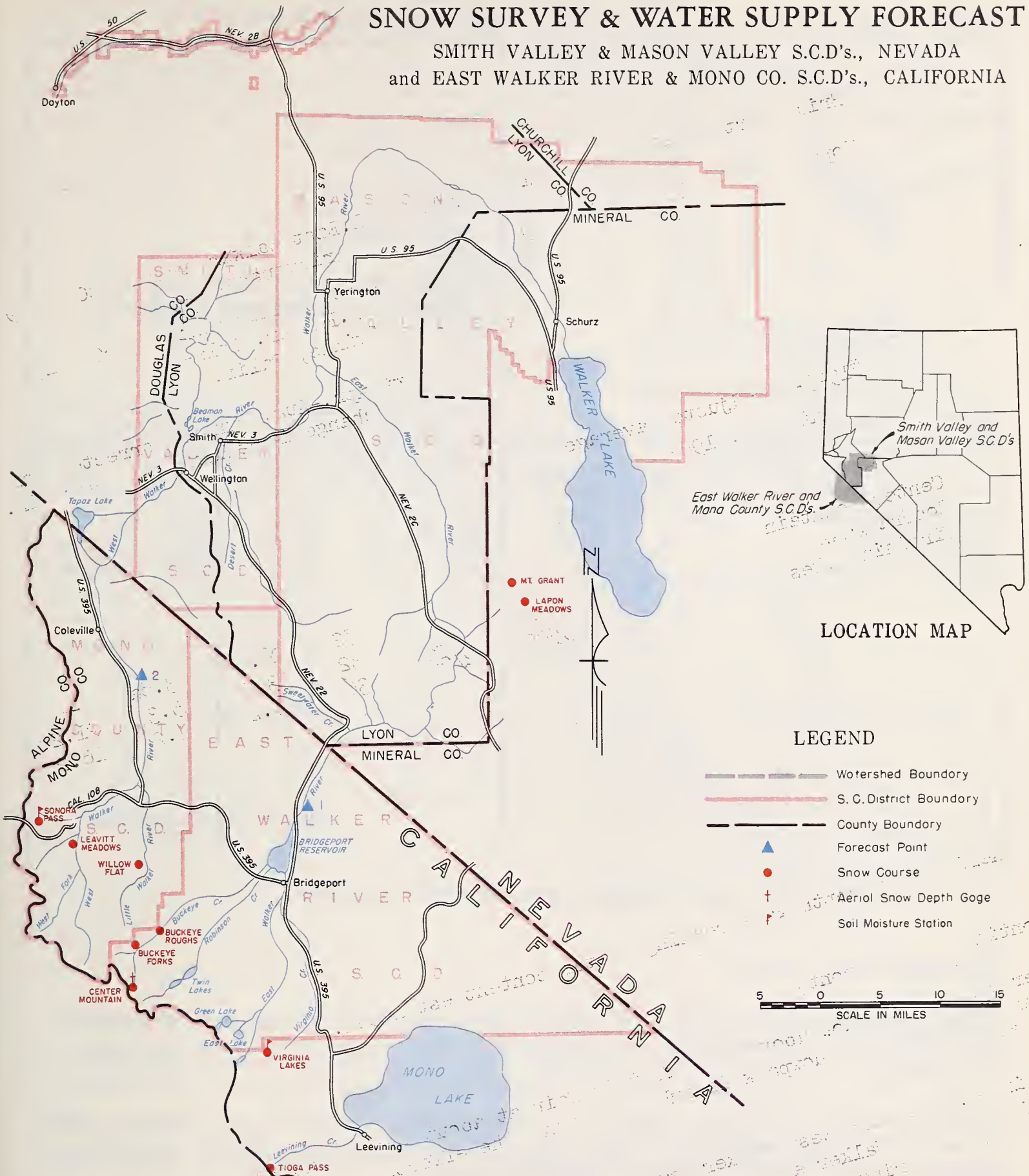
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SNOW SURVEY & WATER SUPPLY FORECAST

SMITH VALLEY & MASON VALLEY S.C.D's., NEVADA
and EAST WALKER RIVER & MONO CO. S.C.D's., CALIFORNIA



MARCH 1, 1963

Irrigation season streamflow during 1963 above Bridgeport and Topaz Reservoirs on the East and West Walker Rivers will be below normal. East Walker near Bridgeport is forecast to flow 30,000 acre feet during April-August or 49 percent of average. West Walker near Coleville should flow 80,000 acre feet during April-July which is 54 percent of average.

Bridgeport and Topaz Reservoirs as of March 1, 1963 are nearly full holding 52,000 and 39,000 acre feet respectively.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Bridgeport	42	39	18	33
Topaz	59	52	19	42

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

*1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Walker near Bridgeport, Cal**	30	69	61
2. West Walker below E. Fk. nr. Coleville, Calif.	80	155	148

** Apr.-Aug. runoff corrected for change in Bridgeport Reservoir.

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Center Mountain	9400	2/28	72	28.8a	43.8a	--
Sonora Pass	8000	2/25	32	13.2	25.3	21.2*
Virginia Lakes	9500	2/25	36	15.2	22.2	16.2*

a Aerial snow depth gage reading; water content estimated.

(Continued from front)

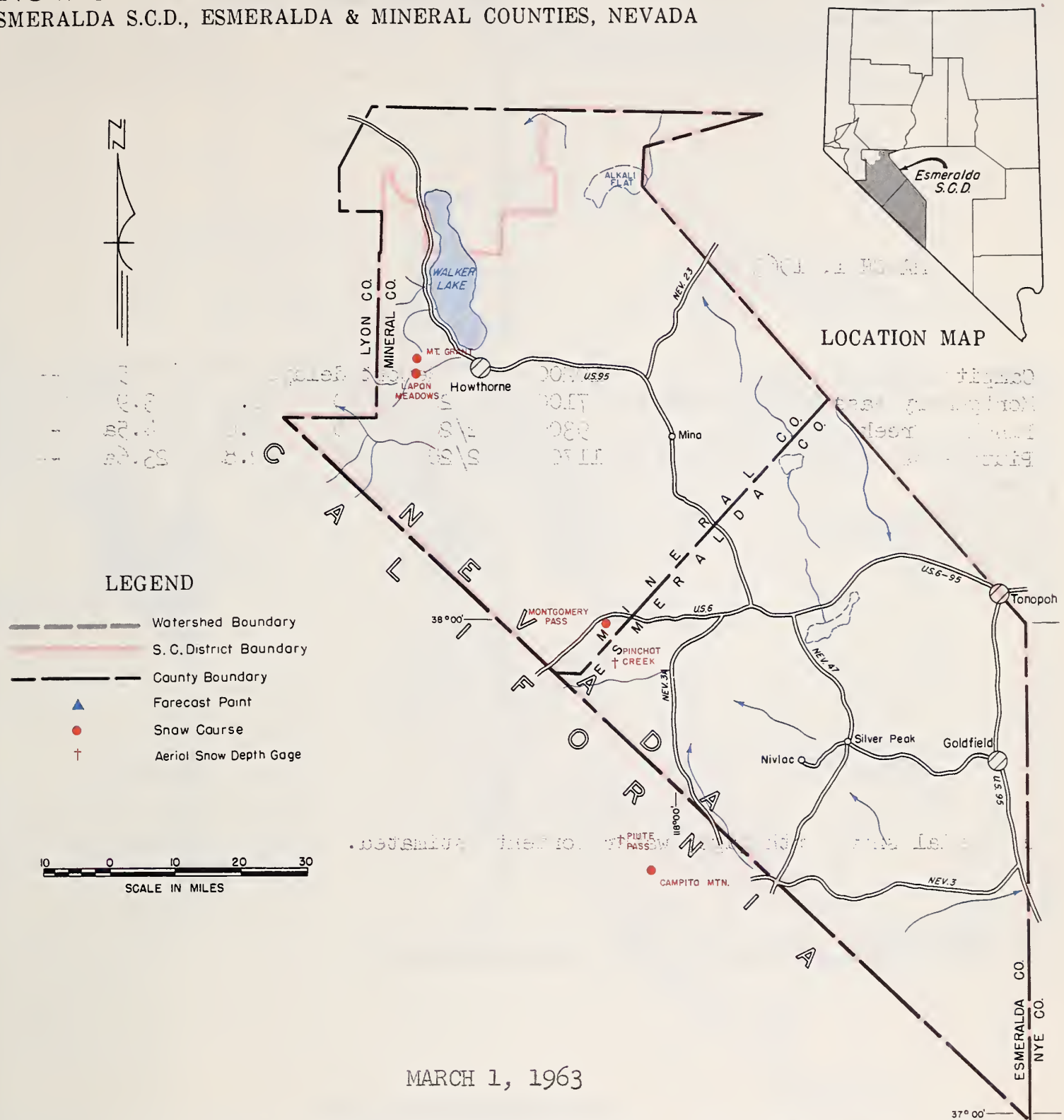
Water content of snow above 8700 feet is fair at about 75 percent of average. Below 8700 feet the snowpack is subnormal with the effective snow line at 8200 feet.

Mountain soils in the West Walker are well wetted. Soils at the higher elevations in the East Walker are drier and will absorb an appreciable quantity of snowmelt water during the spring melt season.

Water users served from direct streamflow diversion should plan their water supply carefully. The cropping and water management practices most effective during the 1961 irrigation season would merit consideration again this year.

SNOW SURVEY & WATER SUPPLY FORECAST

ESMERALDA S.C.D., ESMERALDA & MINERAL COUNTIES, NEVADA



Snowpack in the White Mountains is poor this year. The effective snow line is above 9000 feet in contrast to last year when the snow line was below 7000 feet.

Ground water recharge into Fish Lake Valley will be poor this year.

Montgomery Pass snow course has had no measurable snow during any of the snow survey measurement periods to date.

The Pinchot Creek and Piute Pass aerial markers showed no improvement during February.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

SNOW

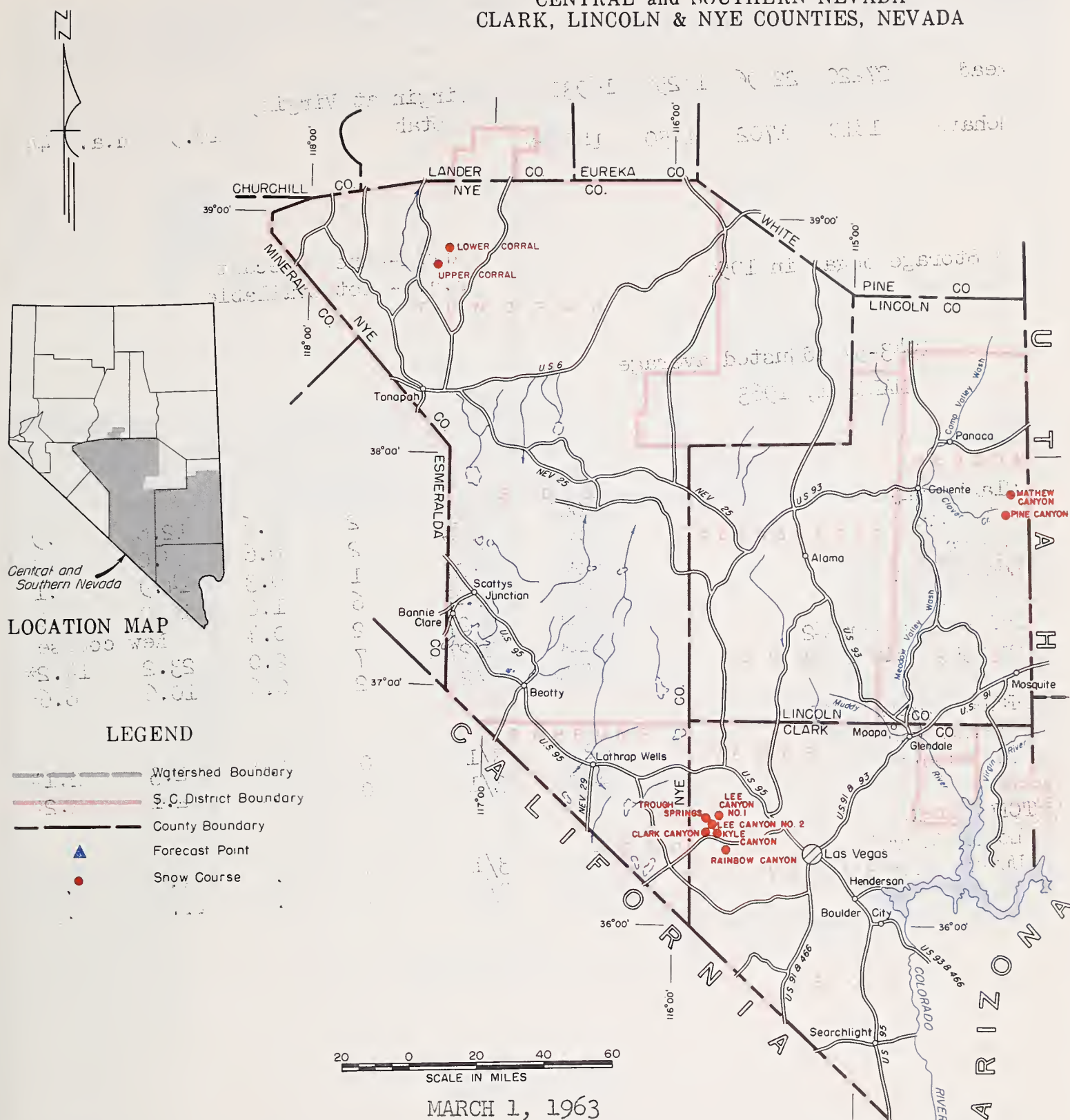
MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
NAME	ELEVATION					
Campito	10200	Report delayed			9.5	--
Montgomery Pass	7100	2/28	0	0.0	3.9	--
Pinchot Creek	9300	2/28	0	0.0	4.5a	--
Piute Pass	11700	2/28	8	2.8a	23.6a	--

a Aerial snow depth gage; water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

CENTRAL and SOUTHERN NEVADA
CLARK, LINCOLN & NYE COUNTIES, NEVADA



March 1, 1963 water content of snow in the Spring Mountains near Las Vegas is only 10 percent of the March 1 average. All snow courses are at record low exceeding the previous lows of 1961. Ground water recharge from the Spring Mountains will be extremely poor.

Pine and Mathew Canyon snow courses in Meadow Valley Wash are bare. The Corral courses in the headwaters of the Reese River are also bare. Poor irrigation season runoff is in prospect in the Reese River area.

Water users in the Mesquite area served from the Virgin River can expect a below normal irrigation water supply. Virgin River at Virgin, Utah is forecast to flow 16,500 acre feet during April-June which is 37 percent of the 1943-57 average. Mountain snowpack in the Virgin River headwaters is much below normal with the effective snow line above 8500 feet. Virgin at Virgin flowed 17,000 a.f. in 1961.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Mead	27220	22496	18250	16930
Mohave	1810	1702	1750	1480**
** Storage began in 1970				

** Storage began in 1950

NOTE :

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Virgin at Virgin, Utah	16.5	n.a.	44
April-June forecast n.a. - not available			

SNOW

MARCH 1, 1963

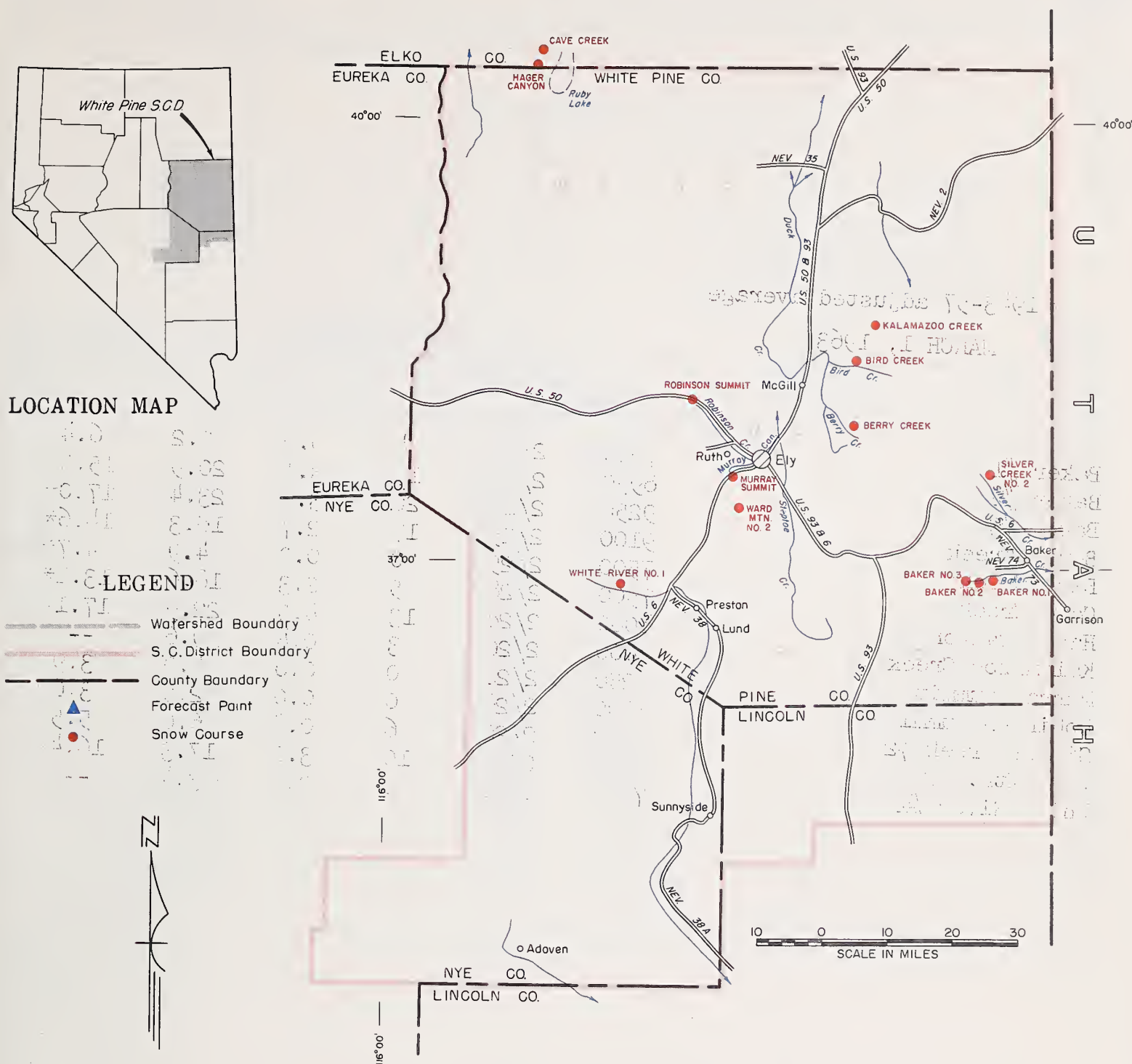
SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Clark Canyon	9000	2/28	2	0.6	12.6	7.9*
Kyle Canyon	8200	2/27	2	0.6	18.0	9.3
Lee Canyon #1	8300	2/27	1	0.3	14.9	8.1
Lee Canyon #2	9000	2/27	6	1.6	16.0	9.0
Lee Canyon #3	8400	2/27	2	0.4	New	course
Rainbow Canyon #2	8100	2/27	7	2.0	23.2	14.2*
Trough Springs	8500	2/28	2	0.6	10.6	6.6*
MEADOW VALLEY SCD						
Mathew Canyon	6200	3/1	0	0.0	2.3	2.1*
Pine Canyon	6000	3/1	0	0.0	2.1	2.2*
TONOPAH SCD						
Lower Corral	7500	3/1	0	0.0	4.0	1.8*
Upper Corral	8500	3/1	0	0.0	11.3	5.5*

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SNOW SURVEY & WATER SUPPLY FORECAST

WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



MARCH 1, 1963

Streamflow from the Snake and Schell Creek ranges will be extremely poor this year if present conditions continue. Mountain snowpack is the lowest on record even at the higher mountain elevations. Berry Creek is 18 percent of its March 1 average.

The Baker snow courses range from 14 percent to 22 percent of normal. To the north, Cave Creek and Hager Canyon are 18 and 26 percent of normal.

Irrigation water supply in White Pine SCD will be limited this year and care in water management should be exercised. Specifically such streams as Bird, Berry, Silver, Baker and Steptoe will have poor streamflow this spring and summer.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

SNOW

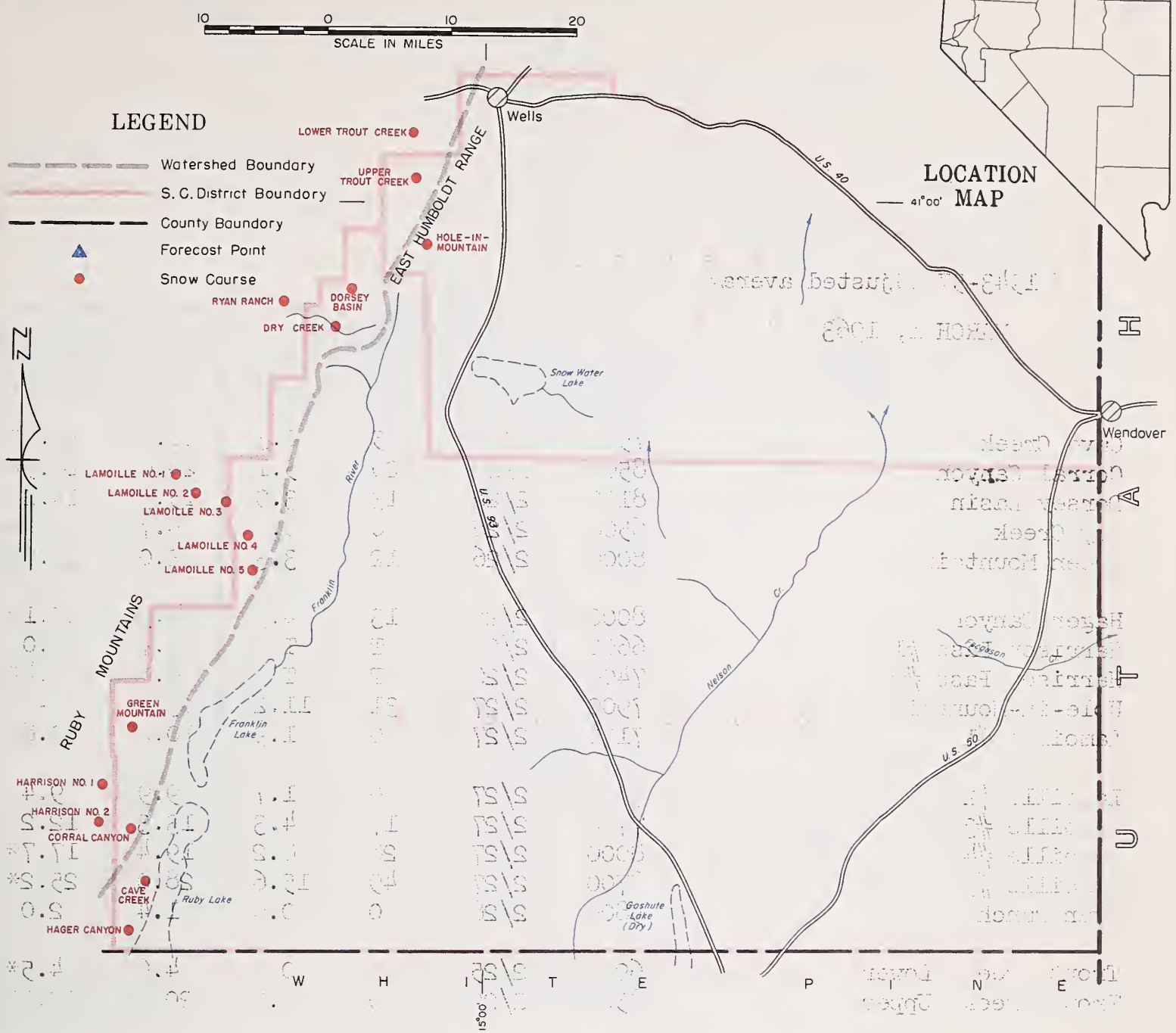
MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Baker #1	7950	2/27	4	0.9	9.2	6.4
Baker #2	8950	2/27	17	3.1	20.9	15.6
Baker #3	9250	2/27	20	3.8	23.4	17.0*
Berry Creek	9100	2/25	17	2.7	18.3	14.6*
Bird Creek	7500	2/25	0	0.0	4.9	4.7*
Cave Creek	7500	2/28	5	2.3	18.6	13.1*
Hager Canyon	8000	2/28	13	4.5	22.9	17.1*
Kalamazoo Creek	7400	2/26	3	0.4	9.6	--
Murray Summit	7250	2/28	0	0.0	4.0	3.9
Robinson Summit	7600	2/28	0	0.0	2.5	3.6*
Silver Creek #2	8000	2/26	6	0.8	6.0	5.5*
Ward Mtn. #2	8900	2/28	10	3.2	17.3	16.4*
White River #1	7400	2/28	0	0.0	3.4	--

[illegible]

SNOW SURVEY & WATER SUPPLY FORECAST

CLOVER & RUBY S.C.D.'s., ELKO COUNTY, NEVADA



Snow surveys on the west slope of the Ruby Mountains indicate the snowpack to be 23 percent of the March 1 average. Spring and summer streamflow from streams heading in the Ruby Mountains will be poor, if the present trend continues.

Two snow courses at the southern end of the Rubys above Ruby Lake National Wildlife Refuge were 22 percent of average.

Farmers and ranchers in this area should exercise good water management in order to utilize the limited water supply.

STORAGE (1,000 Ac. Ft.)

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE :

All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

SNOW

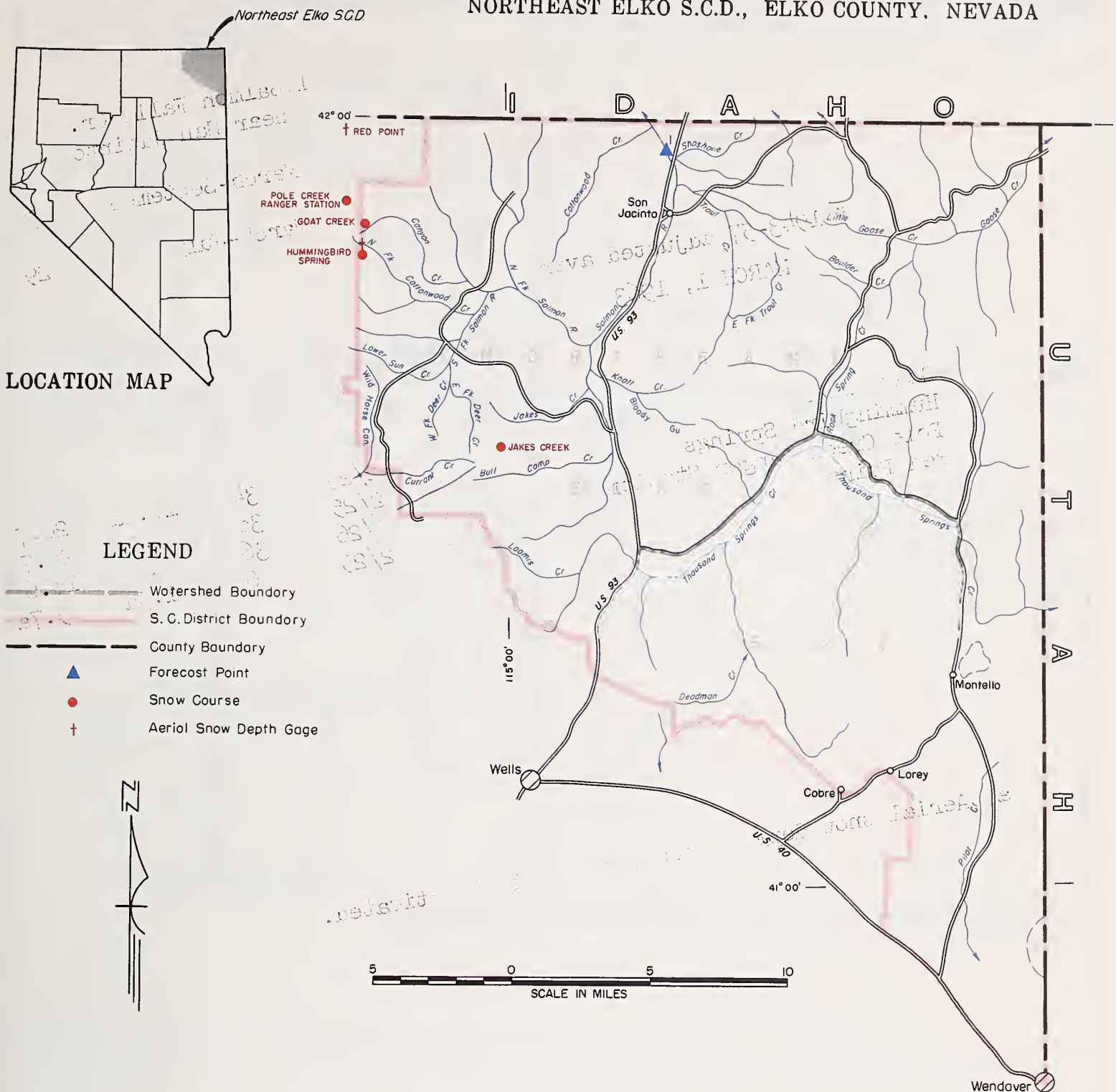
MARCH 1, 1963

SNOW		MARCH 1, 1963		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)			
NAME	ELEVATION				LAST YEAR	AVERAGE		
Cave Creek	7500	2/28	5	2.3	18.6	13.1*		
Corral Canyon	8500	2/28	20	5.1	20.6	16.5*		
Dorsey Basin	8100	2/28	13	3.9	15.5	10.2		
Dry Creek	6500	2/28	0	0.0	4.7	4.8*		
Green Mountain	8000	2/26	12	3.3	13.0	11.2*		
Hager Canyon	8000	2/28	13	4.5	22.9	17.1*		
Harrison Pass #1	6600	2/26	T	T	4.7	4.0		
Harrison Pass #2	7400	2/26	T	T	6.3	4.4*		
Hole-in-Mountain	7900	2/27	31	11.2	23.4	--		
Lamoille #1	7100	2/27	6	1.9	10.0	9.8		
Lamoille #2	7300	2/27	6	1.7	9.9	9.4		
Lamoille #3	7700	2/27	17	4.3	13.3	12.2		
Lamoille #4	8000	2/27	28	8.2	19.4	17.7*		
Lamoille #5	8700	2/27	49	15.6	28.0	25.2*		
Ryan Ranch	5800	2/28	0	0.0	1.4	2.0		
Trout Creek, Lower	6900	2/25	0	0.0	4.6	4.5*		
Trout Creek, Upper	8500	2/25	29	9.3	20.9	19.0*		

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

SNOW SURVEY & WATER SUPPLY FORECAST

NORTHEAST ELKO S.C.D., ELKO COUNTY, NEVADA



Mountain snowpack in the Northeast Elko SCD is about 50 percent of the March 1 average. Soil moisture ranges from dry to damp. These soils will require some of the snowmelt water before runoff occurs. Irrigation season runoff will be poor in this area.

Salmon Falls Creek near San Jacinto is forecast to flow 29,000 acre feet or 34 percent of average during the March-July period.

Good water management should be exercised by farmers and ranchers this year in order to make maximum use of the limited supply of irrigation water.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Salmon Falls Cr. near San Jacinto			
March-September	30	118	88
March-July	29	115	85

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Goat Creek	8800	2/25	34	10.1a	20.7	--
Hummingbird Springs	8945	2/25	38	9.2	24.7	18.3*
Pole Creek Ranger Station	8330	2/26	36	8.7	18.6	16.0*
Red Point	7940	2/25	6	1.5a	9.7a	--

a Aerial snow depth gage; water content estimated.

MARCH 1, 1963

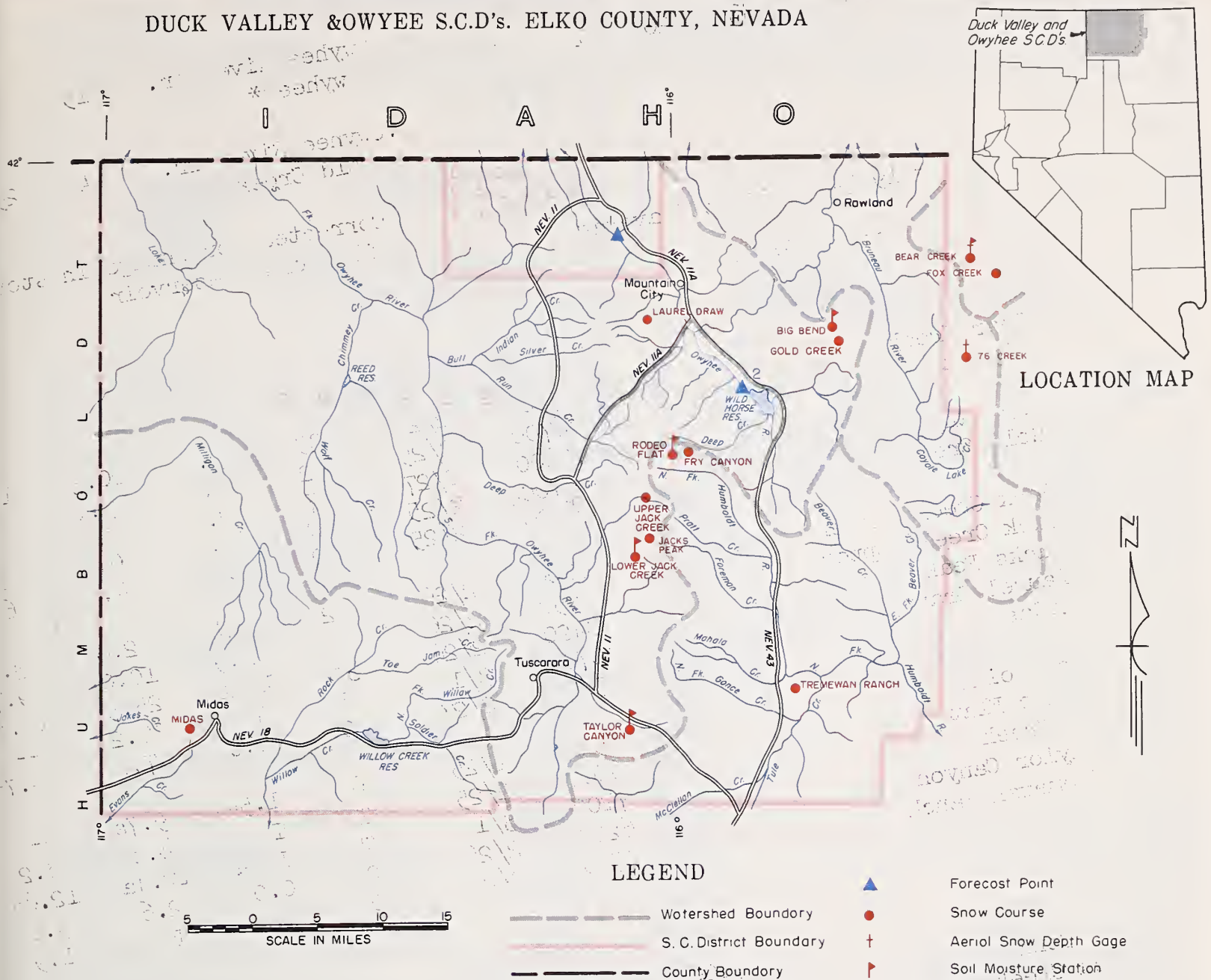
Mountain snowpack in the Montezuma Lake SCD is about 50 percent of the March 1 average. Soil moisture ranges from dry to damp. These soils will require some of the snowmelt water before runoff occurs. Irrigation season runoff will be poor in this area.

Salmon Falls Creek near San Jacinto is forecast to flow 29,000 cfs for 34 percent of average during the March-July period.

Good water management should be exercised by farmers and ranchers this year in order to make maximum use of the limited supply of irrigation water.

SNOW SURVEY & WATER SUPPLY FORECAST

DUCK VALLEY & OWYHEE S.C.D.'s. ELKO COUNTY, NEVADA



Mountain snowpack in the Duck Valley and Owyhee SCD's is much below normal. Practically all of the low elevation snow is gone with the higher elevations at 50 percent of average.

The spring-summer streamflow will be poor this year if the present trend continues. However, those served by Wild Horse Reservoir should have adequate water due to the above normal storage conditions.

The Owyhee near Gold Creek is forecast to flow 4,000 acre feet or 15 percent of average during April-July. Wild Horse Reservoir is not expected to fill to capacity. Downstream the Owyhee near Owyhee is forecast to flow 15,000 acre feet or 17 percent of average during April-July.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Wild Horse	33	20	18	13

NOTE:

All averages based on 1943-1957
15 year period. The forecast period

* 1943-57 adjusted average
is from April 1 through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Owyhee River nr. Owyhee**	15	85	86
2. Owyhee River nr. Gold Creek**	4	29	27

** Corrected for change in storage in Wild Horse Reservoir

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Bear Creek	7800	2/27	39	9.4	20.3	17.1*
Big Bend	6700	2/25	2	0.6	9.1	8.9
Fox Creek	6800	2/27	7	2.0	8.7	8.4*
Fry Canyon	6700	2/25	0	0.0	6.1	8.2
Gold Creek	6600	2/25	0	0.0	4.8	6.3*
Jack Creek, Lower	6800	2/26	2	0.4	2.8	3.2
Jack Creek, Upper	7250	2/26	8	2.9	10.0	9.7*
Jacks Peak	8420	2/26	38	10.1	25.5	18.8*
Laurel Draw	6700	3/1	T	T	6.2	--
Midas	7200	2/27	0	0.0	7.8	4.7*
Red Point	7940	2/25	6	1.5a	9.7a	--
Rodeo Flat	6800	2/25	T	T	4.8	8.2
76 Creek	7100	3/1	T	T a	10.4a	12.8*
Taylor Canyon	6200	2/26	0	0.0	2.6	5.0
Tremewan Ranch	5700	2/25	0	0.0	T	1.9

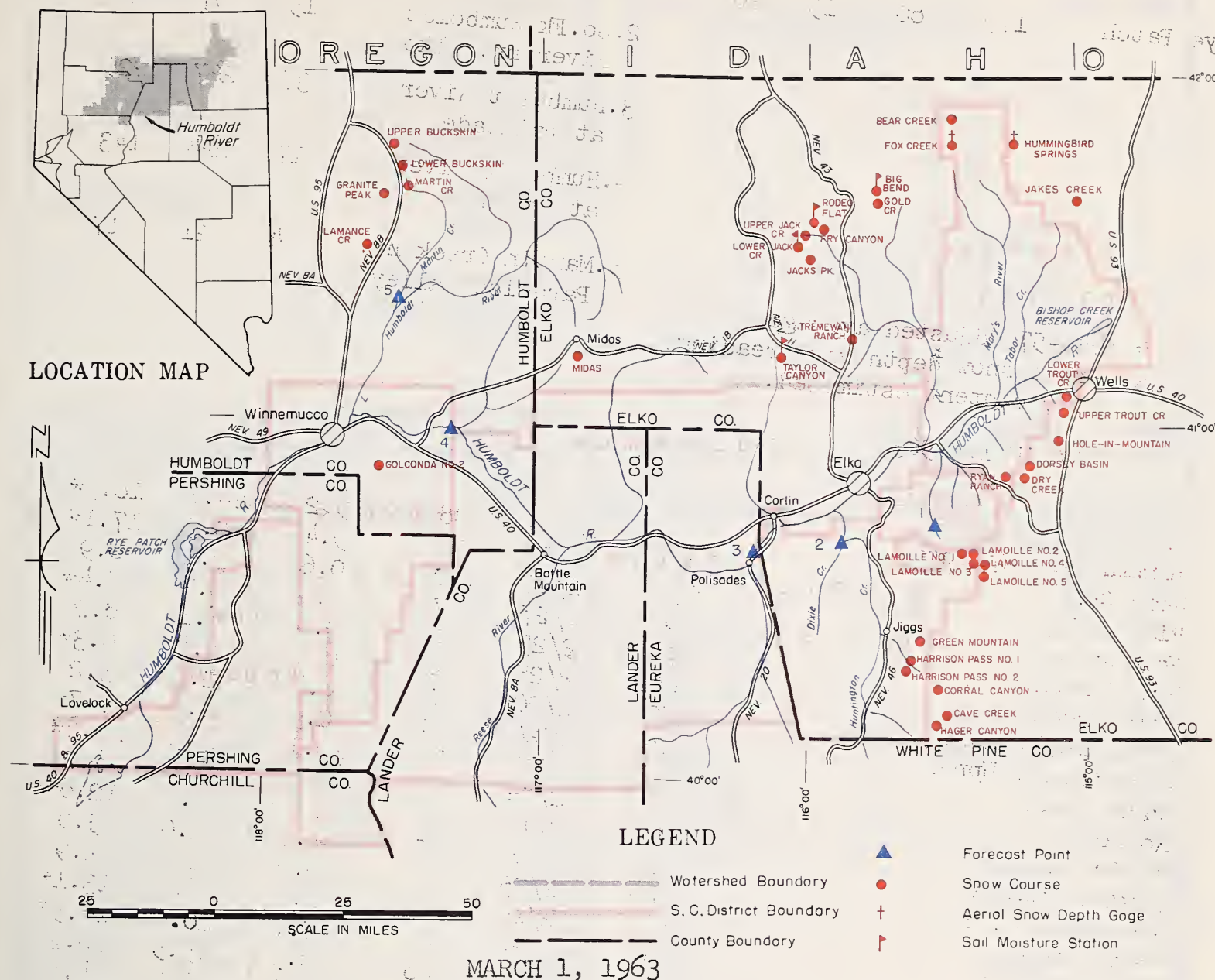
AVAILABLE SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	AVAILABLE CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Bear Creek	7800	72	16.9	2/27	7.6	8.7	8.6
Big Bend	6700	48	16.7	2/25	15.2	15.1	15.0
Jack Creek, Lower	6800	48	8.7	2/26	8.0	8.5	8.1
Rodeo Flat	6800	42	11.0	2/25	10.6	11.0	11.0
Taylor Canyon	6200	48	15.1	2/26	12.4	13.7	12.0

a Aerial snow depth gage; water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

HUMBOLDT RIVER
CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER & PERSHING COUNTIES, NEVADA



Humboldt River water users without reservoir storage facilities will have a poor irrigation season water supply in 1963. March 1, 1963 mountain snowpack in the Humboldt basin is only 31 percent of average. There is little snow below 7500 feet.

The Humboldt at Palisade is forecast to flow 35,000 acre feet during April-July which is 16 percent of average. Downstream at Comus the Humboldt is forecast to flow 17,000 acre feet or 12 percent of average. South Fork Humboldt near Elko should flow 15,000 acre feet (20 percent of average). Lamoille near Lamoille with the "best" snowpack in the basin is predicted to flow 13,000 acre feet during April-July (46 percent average).

Rye Patch Reservoir held 80,000 acre feet on March 1, 1963 (78 percent average). Last year this date only 20,000 acre feet was in storage. A preliminary allotment of 1-1/2 feet has been set by the Pershing County Water Conservation District.

Humboldt basin water users are urged to adopt water conserving management practices this coming irrigation season. "Water stretching" measures found effective in the 1959-61 drought years would merit consideration this year.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	80	15	103

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average
a Aerial snow depth gage reading;
water content estimated.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST		MEASURED	
	THIS YEAR	LAST YEAR	AVERAGE	
1.Lamoille Cr. nr. Lamoille	13	32	28	
2.So.Fk.Humboldt River nr. Elko	15	97	74	
3.Humboldt River at Palisade	35	267	225	
4.Humboldt River at Comus	17	224	143	
5.Martin Creek nr. Paradise Valley	4	21	17	

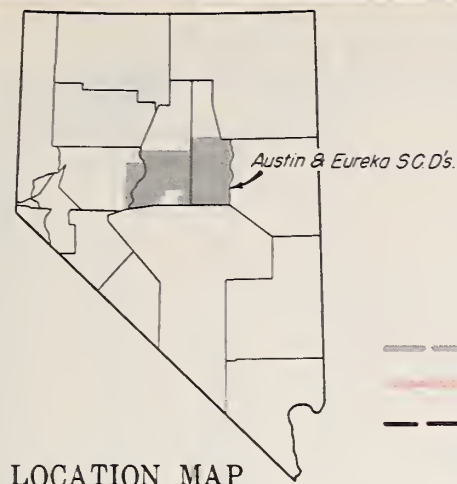
SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Hummingbird Springs	8945	2/25	38	9.2	24.7	18.3*
Bear Creek	7800	2/27	39	9.4	20.3	17.1*
Big Bend	6700	2/25	2	0.6	9.1	8.9
Fox Creek	6800	2/27	7	2.0	8.7	8.4*
Fry Canyon	6700	2/25	0	0.0	6.1	8.2
Gold Creek	6600	2/25	0	0.0	4.8	6.3*
Jack Creek, Lower	6800	2/26	2	0.4	2.8	3.2
Jack Creek, Upper	7250	2/26	8	2.9	10.0	9.7*
Jacks Peak	8420	2/26	38	10.1	25.5	18.8*
Rodeo Flat	6800	2/25	T	T	4.8	8.2
76 Creek	7100	3/1	T	T a	10.4a	12.8*
Taylor Canyon	6200	2/26	0	0.0	2.6	5.0
Tremewan Ranch	5700	2/25	0	0.0	T	1.9
Cave Creek	7500	2/28	5	2.3	18.6	13.1*
Corral Canyon	8500	2/28	20	5.1	20.6	16.5*
Dorsey Basin	8100	2/28	13	3.9	15.5	10.2
Dry Creek	6500	2/28	0	0.0	4.7	4.8*
Green Mountain	8000	2/26	12	3.3	13.0	11.2*
Hager Canyon	8000	2/28	13	4.5	22.9	17.1*
Harrison Pass #1	6600	2/26	T	T	4.7	4.0
Harrison Pass #2	7400	2/26	T	T	6.3	4.4*
Hole-in-Mountain	7900	2/27	31	11.2	23.4	--
Lamoille #1	7100	2/27	6	1.9	10.0	9.8
Lamoille #2	7300	2/27	6	1.7	19.9	9.4
Lamoille #3	7700	2/27	17	4.3	13.3	12.2
Lamoille #4	8000	2/27	28	8.2	19.4	17.7*
Lamoille #5	8700	2/27	49	15.6	28.0	25.2*
Ryan Ranch	5800	2/28	0	0.0	1.4	2.0
Trout Creek, Lower	6900	2/25	0	0.0	4.6	4.5*
Trout Creek, Upper	8500	2/25	29	9.3	20.9	19.0*
Midas	7200	2/27	0	0.0	7.8	4.7*
Golconda #2	6000	3/1	0	0.0	5.5	--
Buckskin, Lower	6700	2/25	T	T	9.0	8.4*
Buckskin, Upper	7200	2/25	7	2.4	9.4	7.9*
Granite Peak	7800	2/25	28	8.4	16.5	10.6
Lamance Creek	6000	2/26	0	0.0	13.5	8.5*
Martin Creek	6700	2/25	T	T	12.5	8.2

SNOW SURVEY & WATER SUPPLY FORECAST

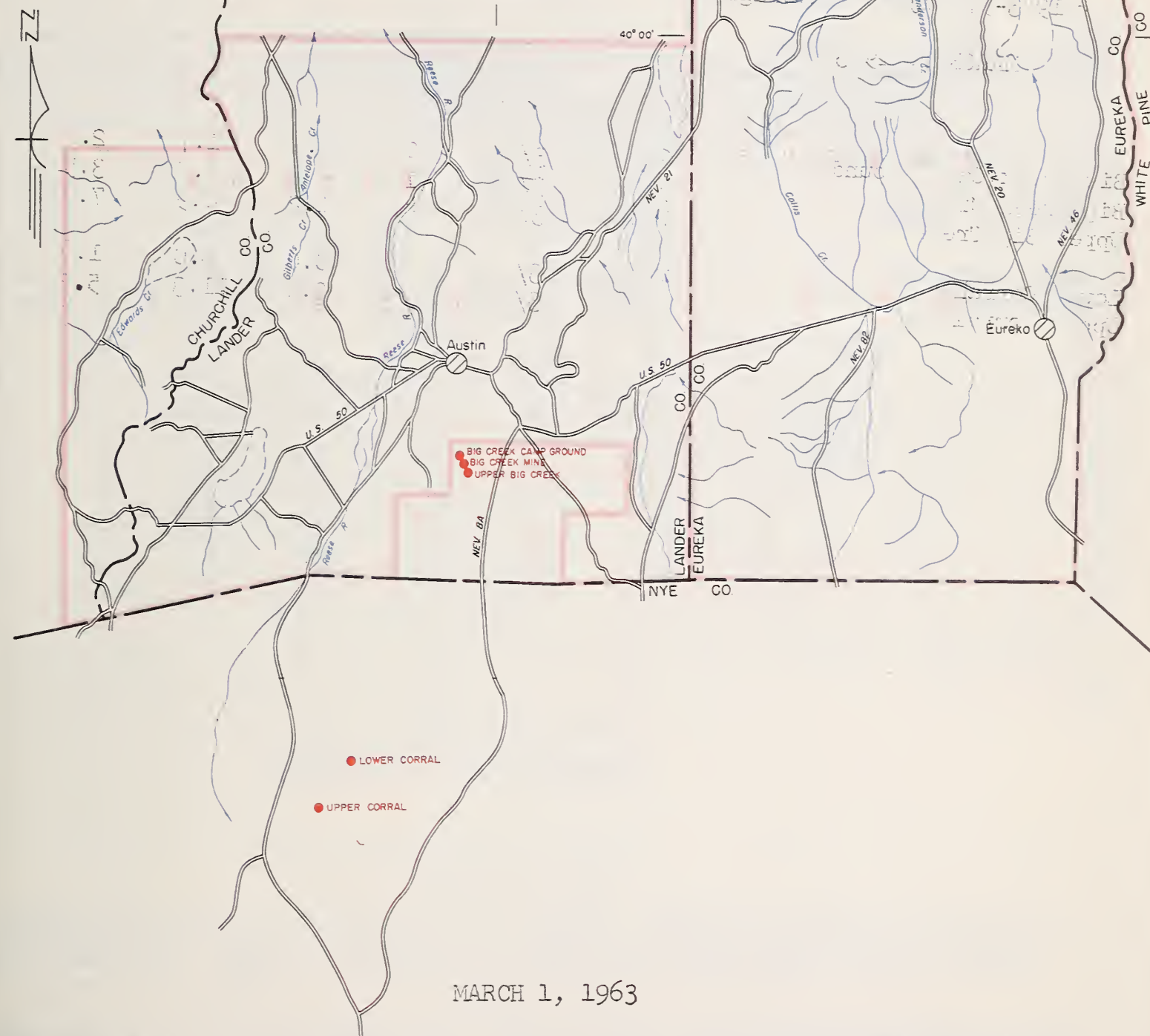
AUSTIN & EUREKA S.C.D's., CHURCHILL, EUREKA
& LANDERS COUNTIES, NEVADA



8 0 8 16
SCALE IN MILES

LEGEND

- Watershed Boundary
- S.C.District Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course



MARCH 1, 1963

Snow surveys in the Austin-Eureka area indicate one of the lowest snowpacks on record. The only snow course in this area with measurable snow was Upper Big Creek which was 17 percent of average.

Streamflow on Big Creek and the Upper Reese River will be poor this spring and summer unless there is a decided increase in snowpack.

Irrigation water users are cautioned to use extreme care in the management of the limited water supply.

Plate 13

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.
* 1943-57 adjusted average

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Big Creek Camp Ground	6600	3/1	0	0.0	1.7	2.1
Big Creek Mine	7600	3/1	T	T	7.7	3.5*
Upper Big Creek	7800	3/1	4	1.2	8.5	7.0*
Lower Corral	7500	3/1	0	0.0	4.0	1.8*
Upper Corral	8500	3/1	0	0.0	11.3	5.5*

APRIL 1963

now surveys in the Austin area are indicating one of the lowest snow
years. The snow course in this area with remaining snow was Upper Big
Creek which is 4 percent average.

Information on the Creek and the Upper Reservoir is poor this year
summers. There is a slight increase in snow.

Irrigation water users are cautioned to use extreme care in the management
of the limited water supply.

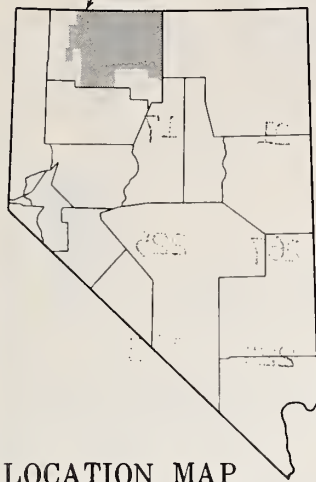
Page 13

Kings River, Paradise Valley &
Quinn River S.C.D's.

SNOW SURVEY & WATER SUPPLY FORECAST

KINGS RIVER, PARADISE VALLEY & QUINN RIVER S.C.D's.,

HUMBOLDT COUNTY, NEVADA

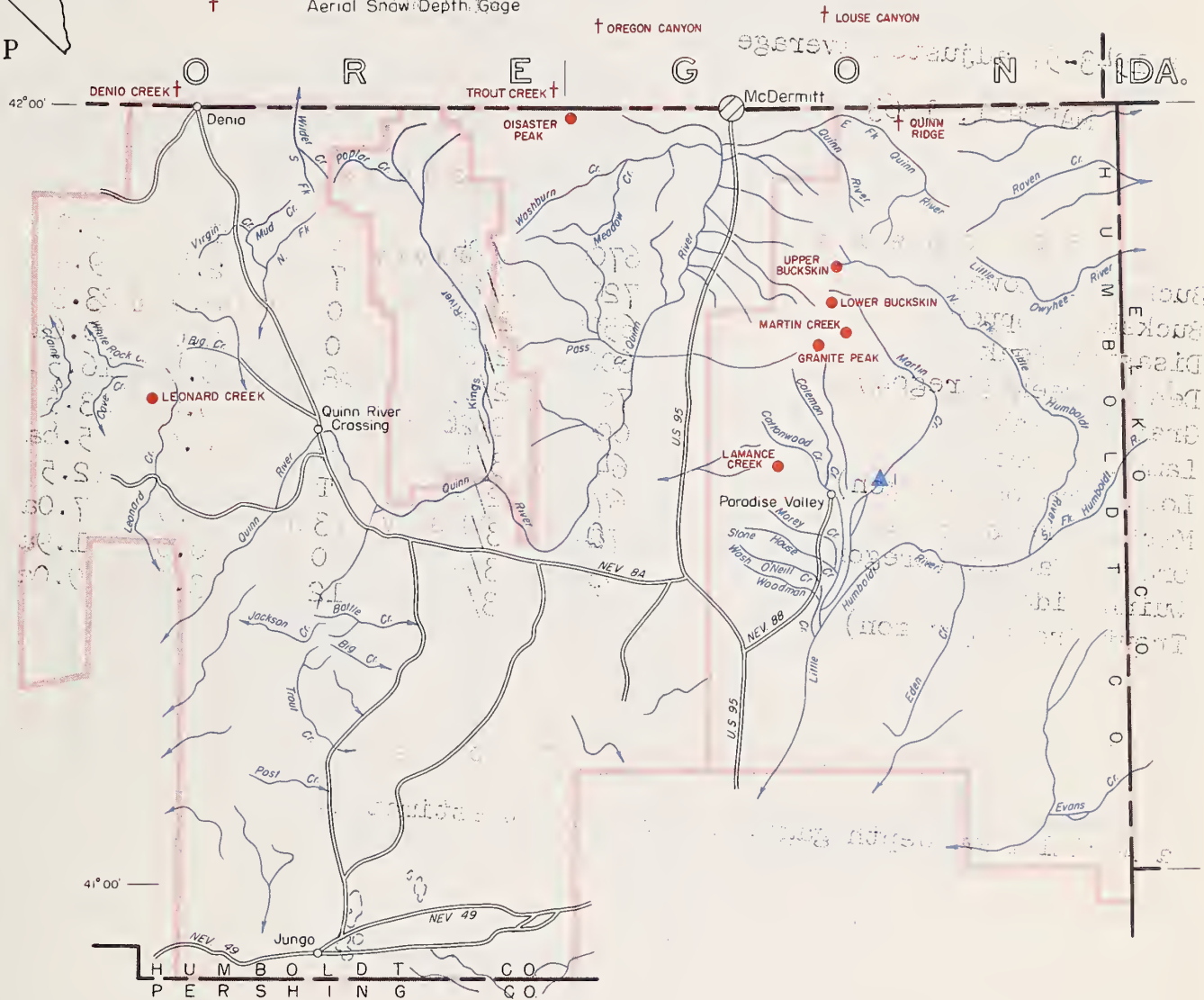


LOCATION MAP

LEGEND

- Watershed Boundary
- S.C. District Boundary
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage

SCALE IN MILES



MARCH 1, 1963

Mountain snowpack in the Kings River, Paradise Valley and Quinn River SCD's is poor this year. There is virtually no snow below 7000 feet and very little at higher elevations.

Streamflow will be poor this year. Martin Creek near Paradise Valley is forecast to flow 4,000 acre feet or 24 percent of average. Other streams in the Santa Rosas will have flows similar to Martin Creek.

Farmers and ranchers should plan their water management very carefully this year in order to effect the maximum use of the very limited water supply in prospect.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	80	15	103

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1.Martin Creek nr. Paradise Valley	4	21	17
2.Humboldt River at Palisade	35	267	225
3.Humboldt River at Comus	17	224	143

SNOW MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Buckskin, Lower	6700	2/25	T	T	9.0	8.4*
Buckskin, Upper	7200	2/25	7	2.4	9.4	7.9*
Disaster Peak	6500	2/28	0	0.0	23.3	14.5*
Denio Creek (Oregon)	6000	2/24	0	0.0	0.6a	--
Granite Peak	7800	2/25	28	8.4	16.5	10.6
Lamance Creek	6000	2/26	0	0.0	13.5	8.5*
Louse Canyon (Oregon)	6440	3/4	0	0.0	5.8a	--
Martin Creek	6700	2/25	T	T	12.5	8.2
Oregon Canyon (Oregon)	7240	3/4	3	0.9	7.0a	--
Quinn Ridge	6300	3/4	0	0.0	1.9a	--
Trout Creek (Oregon)	7800	3/4	12	3.6	9.0a	--

a Aerial snow depth gage; water content estimated.

SOL - 100-1

100-1547-100
100-1547-100

There is a small no one else. You
back in the river, Paradise Valley

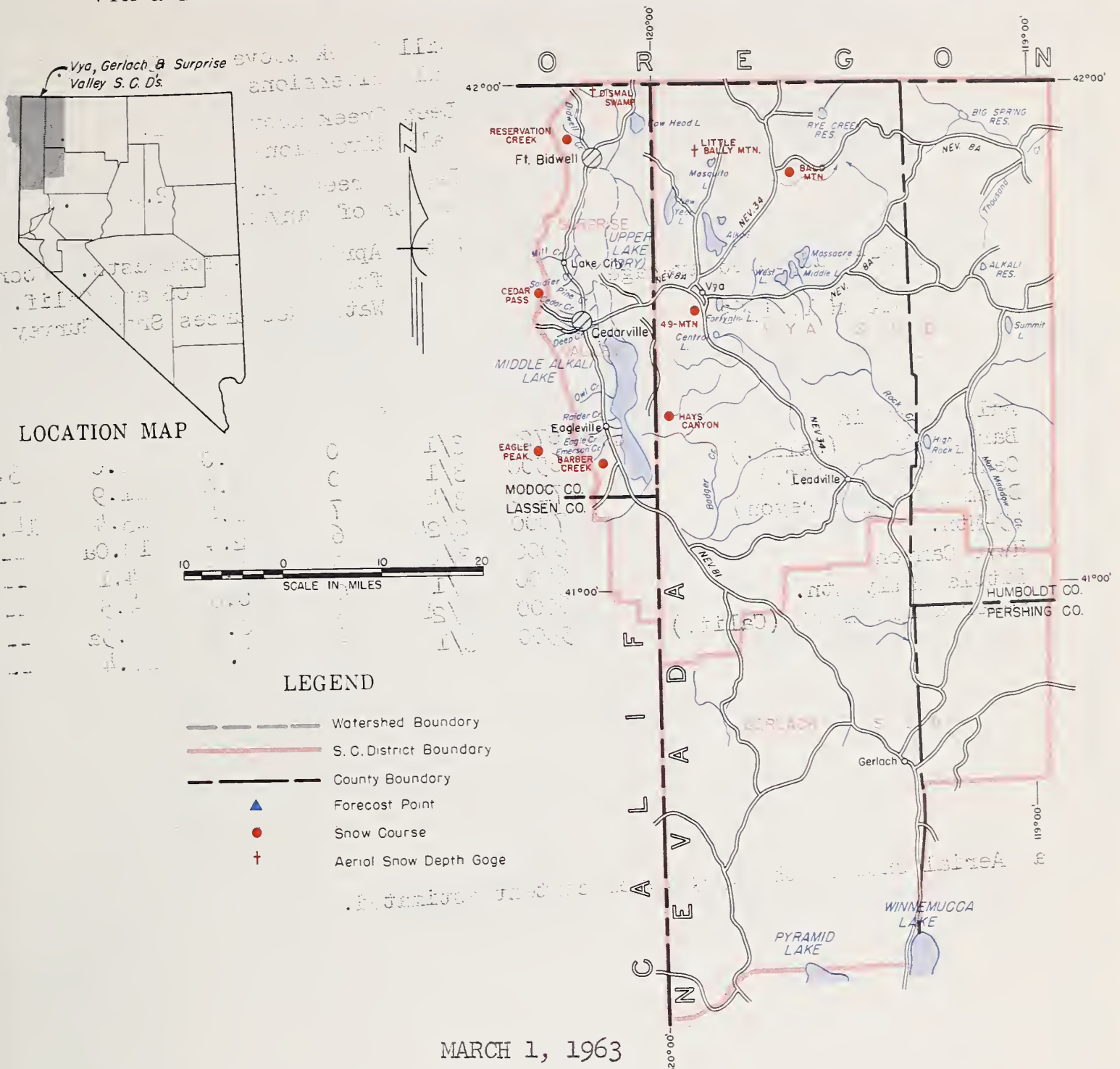
There are no other persons in the household.

1. The first group of 100,000 will be poor and
2. The second group of 100,000 will be poor and
3. The third group of 100,000 will be poor and
4. The fourth group of 100,000 will be poor and
5. The fifth group of 100,000 will be poor and
6. The sixth group of 100,000 will be poor and
7. The seventh group of 100,000 will be poor and
8. The eighth group of 100,000 will be poor and
9. The ninth group of 100,000 will be poor and
10. The tenth group of 100,000 will be poor and

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SNOW SURVEY & WATER SUPPLY FORECAST

VYA & GERLACH S.C.D'S., NEVADA and SURPRISE VALLEY S.C.D., CALIFORNIA



Water users in the Surprise Valley area will have a below average water supply this spring and summer. Coordinated forecasts of the California Department of Water Resources Snow Survey Unit and the Soil Conservation Service indicate that April-September 1963 streamflow will be less than 50 percent of average. Summer thundershowers which commonly occur in this area could improve streamflow appreciably.

Water content of snow in the Surprise Valley and Vya SCD's is extremely poor. The only snow courses with reportable snow were Cedar Pass and Dismal Swamp.

Fall precipitation was above average and winter precipitation has been good; but not in the form of snow. Mountain soils are well wetted.

If 1963 irrigation streamflow follows the pattern of flow experienced in other low flow years, water users can expect streamflow to drop off markedly by the end of May.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957
15 year period. The forecast period
is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Mill Creek above all diversions	2.6	3.6	6.1
Deep Creek above all diversions	1.8	2.4	4.2
Eagle Creek near mouth of canyon	2.8	4.1	5.8

Note: April-Sept. forecasts. Coordinated forecasts of SCS and Calif. Dept. Water Resources Snow Survey Unit.

SNOW

MARCH 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Bald Mountain	6720	3/1	0	0.0	6.0	3.3
Barber Creek (Calif.)	6500	3/1	0	0.0	11.9	--
Cedar Pass (Calif.)	7100	3/4	7	1.4	13.4	14.7
Dismal Swamp (Oregon)	7000	2/24	6	2.4	18.0a	--
49-Mtn.	6000	3/1	0	0.0	4.1	--
Hays Canyon	6400	3/1	0	0.0	4.5	--
Little Bally Mtn.	6000	2/24	0	0.0	4.5a	--
Reservation Creek (Calif.)	5900	3/1	0	0.0	11.4	--

a Aerial snow depth gage; water content estimated.

8001.11.1

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Army
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- Weather Bureau

STATE

- California Cooperative Snow Surveys
- California Department of Water Resources
- Colorado River Commission of Nevada
- Nevada Association of Soil Conservation Districts
- Nevada Cooperative Snow Surveys
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester-Firewarden
- Oregon Cooperative Snow Surveys
- University of Nevada
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas & Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Squaw Valley Development Company
- Truckee-Carson Irrigation District
- Virginia City Water Company
- Walker River Irrigation District
- Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*